

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4124 GENERATOR PARTS LIST

GAS-4124

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GAS-20	2	Frame Screw					
(GAS-3001)	1	Frame & Field Assembly					
GAS-29	2	Pole Piece					
GAS-40	1	Ins. Washer - Special					
GAS-41	1	Ins. Bushing					
GAS-44	1	Field Connection Ins.					
GAS-45	4	Field Coil Holder					
GAS-47	1	Terminal Lead Assy.					
GBF-36	1	Terminal Post					
X-1423	1	Terminal					
GAS-2005	1	FIELD COIL ASSY.-COMP.					
GAS-1007A	1	Field Coil Assy.-Left					
X-1424	1	Terminal					
GAS-1008A	1	Field Coil Assy.-Right					
X-959	1	Side Terminal					
GBF-55	1	Ins. Washer					
MN-21	2	Dowel Pin					
MZ-38	2	Pole Piece Screw					
X-140	1	#6-32 Hex. Nut					
X-1274	2	3/16 Skpf. Washer					
X-1275	1	#8 Skpf. Washer					
X-1350	1	#6-32x7/16 Flat Hd. Sc.					
5X-1377	1	#10-32 Hex. Nut					
X-196	1	#10 Lock Washer					
X-544	2	#10 Lock Washer					
5X-1377	1	#10-32 Hex. Nut					

Comm. End Plate Assembly & Parts Used With

GAS-69	1	Comm. End Cap Cover					
GAS-70	1	End Cap Cover Gasket					
GAS-71	1	Bearing Retaining Washer					
GAS-77	1	Felt Washer					
GAS-78	1	Felt Washer Retainer					
(GAS-3068A)	1	Comm. End Plate Assy.					
GAS-51	2	3rd Brush Plate Retaining Spring					
GAS-68	1	Comm. End Plate					
GAS-2021L	1	Brush Holder Plate Assy.					
GAL-31	1	Ground Connector Assy.					
X-958	2	Side Terminal					
GAS-12‡	2	Brush - Main					
GAS-15	2	Brush Holder					
GAS-17	1	Brush Spring					
GAS-18	1	Brush Spring					
GAS-1021L	1	Brush Holder Plate Part Assy.					
8X-122	2	#8-32x1/2 Fill. Hd. Sc.					
X-1275	2	#8 Skpf. Washer					
GAS-2072LA	1	3rd Brush Holder Plate Assembly					
GAS-13‡	1	Brush - Third					
GAS-15	1	Brush Holder					
GAS-18	1	Brush Spring					
GAS-1072LA	1	3rd Brush Holder Plate Part Assy.					
8X-878	1	#8-32x7/16 Fill. Hd. Screw					
X-1275	1	#8 Skpf. Washer					
			1	2	3	4	5

Comm. End Plate Assembly (Con't.)

Part No.	No. Used	Name of Part					
			1	2	3	4	5
8X-55	3	#8-32x3/8 Rd. Hd. Screw					
X-195	1	#8 Lock Washer					
X-489	1	1/4 Oiler - Press in Type					
IA-175	1	Flat Steel Washer					
8X-61	1	#10-32x7/16 Flat Hd. Screw					
X-63	3	#8-32x3/8 Flat Hd. Screw					
X-293	1	BALL BEARING - S.A.E. #201					

Armature Assembly & Parts Used With

GAS-3076	1	ARMATURE ASSEMBLY					
GAS-53	1	Snap Ring					
IA-158	1	Snap Ring					
X-160	1	7/16-20 Hex. Nut					
X-1278	1	7/16 Skpf. Washer					
X-1460	1	#212 Woodruff Key					

Drive End Head Assembly & Parts Used With

GAS-1075	1	Drive End Head Assembly					
DB-13	1	Flat Felt Guard					
GAS-73	1	Cupped Felt Guard					
GAS-74	1	Bearing Retainer					
GAS-75	1	D.E. Head					
IGP-34	1	Felt Wick					
SC-127	1	Felt Washer					
6X-55	3	#8-32x3/8 Rd. Hd. Screw					
X-195	3	#8 Lock Washer					
X-294	1	BALL BEARING - S.A.E. #202					
X-489	1	1/4 Oiler - Press in Type					

Miscellaneous Parts

GAS-1024	1	Head Band Assembly					
X-714	1	#10-32x1 1/2 Rd. Hd. Screw					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

(Issued 5-16-39)

‡ SERVICE BRUSH SET GAS-2012.

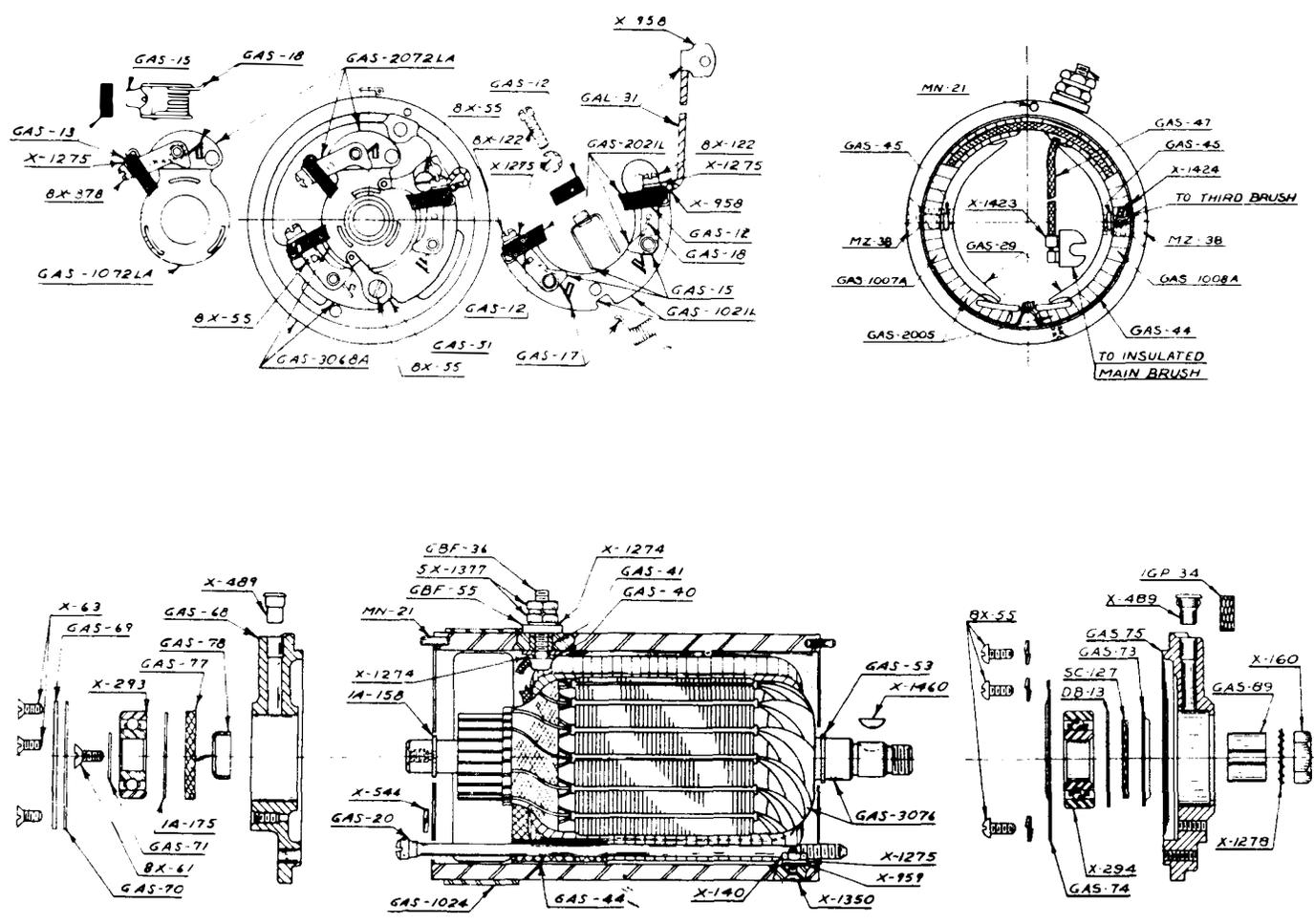
UNIT	APPLICATION
GAS-4124	Wisconsin Motor

Printed in U. S. A.

File in
Equipment & Parts Lists Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAS-4124 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4125 GENERATOR PARTS LIST

GAS-4125

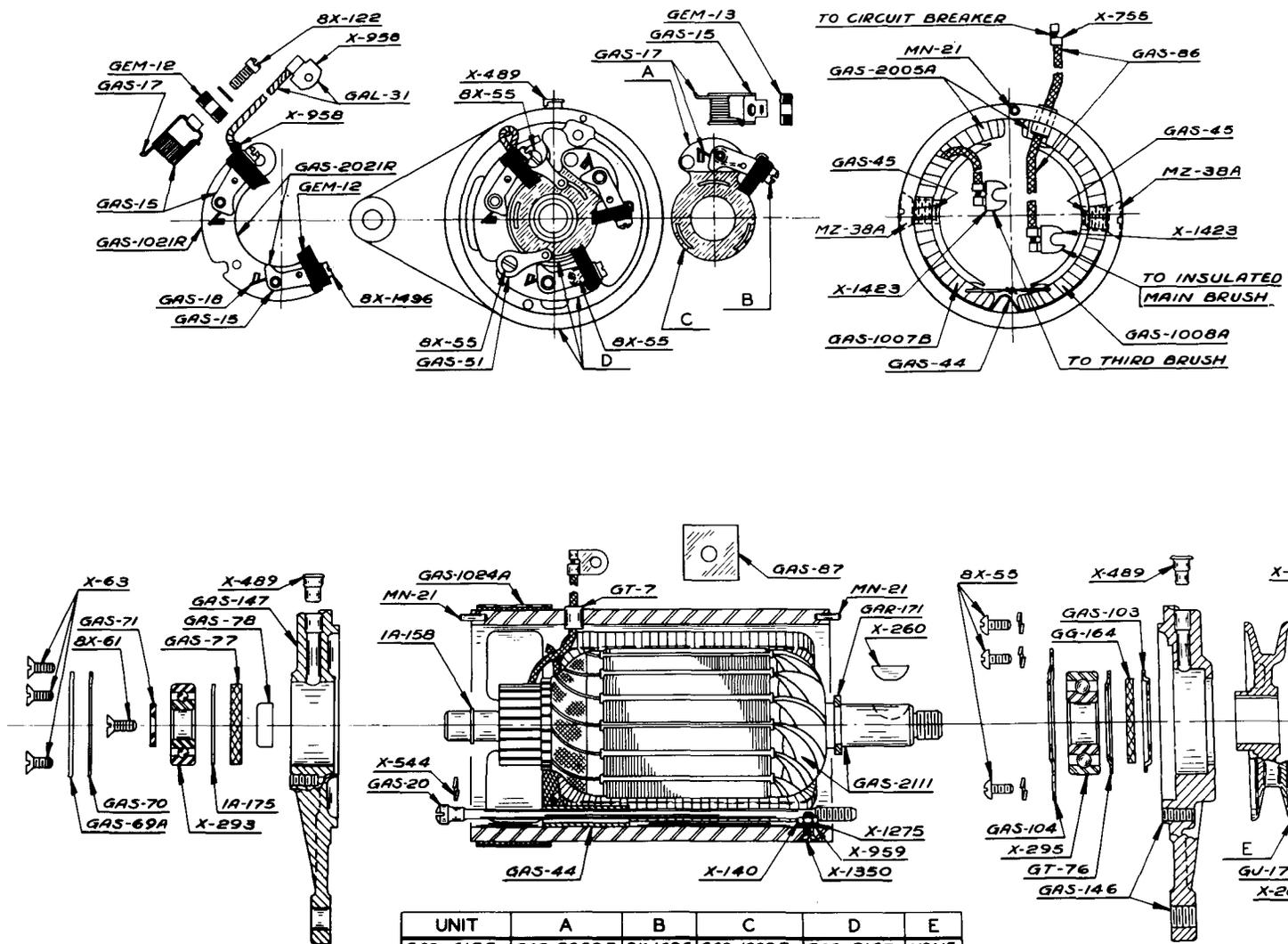
Frame & Field Assembly & Parts Used With						Comm. End Head Assembly (Continued)								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
GAS-20A	2	Bolt, Thru					*	1	Plate, 3rd Brush					
(GAS-2138)	1	Frame & Field Assy.					GEM-13†	1	Brush					
GAS-44	1	Insulation, Field Connection					X-1013	1	Washer, Lock, Brush Sc., #8					
GAS-45	4	Holder, Field Coil					*	1	Screw, Brush, Bdg. hd., #8-32x7/16					
GAS-86	1	Lead Assy.					8X-55	3	Screw, Plate Attaching, Rd. hd., #8-32x3/8					
X-1423	1	Terminal					X-195	1	Washer, Lock, Plate Screw, #8					
GAS-2005A	1	Coil Assy., Field, Comp.					X-489	1	Oiler, Hinge Top, Press in, 1/4					
GAS-1007B	1	Coil Assy., Field, Left					IA-175	1	Washer, Plain, Felt Retaining					
X-1423	1	Terminal					8X-61	1	Screw, Bearing Retaining, Flat hd. #10-32x7/16					
GAS-1008A	1	Coil Assy., Field, Right					X-63	3	Screw, Cover Holding, Flat hd., #8-32x3/8					
X-959	1	Terminal					X-293	1	Bearing, Ball, S.A.E. #201					
GT-7	1	Bushing, Insulating					<u>Armature Assembly & Parts Used With</u>							
MN-21	2	Pin, Dowel, Head Locating					GAS-2111	1	Armature Assy.					
MZ-38	2	Screw, Pole Shoe					GAR-171	1	Snap Ring, D.E.					
X-140	1	Nut, Field Ground, Hex., #6-32					IA-158	1	Snap Ring, C.E.					
X-755	1	Terminal					GJ-179	1	Washer, Plain, Armature Shaft					
X-1275	1	Washer, Skpf., Field Ground, #8					X-160	1	Nut, Armature Shaft, Hex., 7/16-20					
X-1350	1	Screw, Field Ground, Flat hd, #6-32x7/16					X-205	1	Washer, Lock, Armature Shaft, 7/16					
X-544	2	Washer, Lock, Thru Bolt, #10					X-260	1	Key, Woodruff, #5					
<u>Comm. End Head Assembly & Parts Used With</u>						<u>Drive End Head Assembly & Parts Used With</u>								
GAS-69A	1	Cover, Comm. End					GAS-1146	1	Head Assy., Drive End					
GAS-70	1	Gasket, Cover, Comm. End					GAS-103	1	Retainer, Felt Washer, Cupped					
GAS-71	1	Washer, Bearing, Retaining					GAS-104	1	Retainer, Bearing					
GAS-77	1	Washer, Felt					GAS-146	1	Head					
GAS-78	1	Retainer, Felt Washer					GG-164	1	Washer, Felt					
*	1	Head Assy., Comm. End					GT-76	1	Retainer, Felt Washer					
GAS-51	2	Spring, Retaining, 3rd Brush Plate					8X-55	3	Screw, Retainer, Rd. hd., #8-32x3/8					
GAS-147	1	Head					X-195	3	Washer, Lock, Retainer Sc., #8					
GAS-2021R	1	Plate Assy., Main Brush					X-295	1	Bearing, Ball, S.A.E. #203					
GAL-31	1	Lead Assy., Ground					X-489	1	Oiler, Hinge Top, Press in, 1/4					
X-958	2	Terminal					<u>Miscellaneous Parts</u>							
GAS-15	2	Holder, Brush					CB-4014	1	Relay Assy., Cutout					
GAS-17	1	Spring, Brush, Grounded					GAS-87	2	Spacer, Relay Mounting					
GAS-18	1	Spring, Brush, Insulated					GAS-1024A	1	Band, Cover					
GAS-1021R	1	Plate, Main Brush					X-196	2	Washer, Lock, Cutout Relay Mtg., #10					
GEM-12†	2	Brush, Main					8X-311	2	Screw, Mounting, Cutout Relay, Rd. hd., #10-32x3/8					
8X-122	1	Screw, Grounded Brush, Fil. hd., #8-32x1/2					X-714	1	Screw, Cover Band, Rd. hd., #10-32x1 1/2					
X-1013	2	Washer, Lock, Brush Sc., #8					8X-794	1	Nut, Cover Band, Square, #10-32					
8X-1496	1	Screw, Ins. Brush, Bdg. hd., #8-32x7/16					1 2 3 4 5 (Issued 3-10-44)							
*	1	Plate Assy., 3rd Brush												
GAS-15	1	Holder, Brush												
GAS-17	1	Spring, Brush												
		1	2	3	4	5								

Assembly No.	Head Assy., Comm. End	Plate Assy., 3rd Brush	Plate, 3rd Brush	Screw, Brush
GAS-4125	GAS-2147	GAS-2082R	GAS-1082R	8X-1496
GAS-4125-1	GAS-2147A	GAS-2082RA	GAS-1082RA	8X-878

* See table following parts list for part number applying to assembly wanted. † Brush Set, Service, GEM-2012S.

Printed in U. S. A.
 "NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

File in
Equipment & Parts List Binder



UNIT	A	B	C	D	E
GAS-4125	GAS-2022R	BX-M96	GAS-1022R	GAS-2147	NONE
GAS-4125-1	GAS-2022RA	BX-878	GAS-1022RA	GAS-2147A	NONE

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4126 GENERATOR PARTS LIST

GAS-4126

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20	2	Frame Screw					GAS-3076	1	Armature Assembly				
(GAS-3148)	1	Frame & Field Assembly					GAS-53	1	Snap Ring				
GAS-29	2	Pole Piece					IA-158	1	Snap Ring				
GAS-44	1	Field Connection Ins.					X-160	1	7/16-20 Hex. Nut				
GAS-45	4	Field Coil Holder					X-1278	1	7/16 Skpf. Washer				
GAS-86	1	C.B. Lead Assy.					X-1460	1	#212 Woodruff Key				
X-1423	1	Terminal					<u>Drive End Head Assembly & Parts Used With</u>						
GAS-2005	1	Field Coil Assy. - Comp.					GAS-1075	1	Drive End Head Assy.				
GAS-1007A	1	Field Coil Assy. - Left					DB-13	1	Flat Felt Guard				
X-1424	1	Terminal					GAS-73	1	Cupped Felt Guard				
GAS-1008A	1	Field Coil Assy. - Right					GAS-74	1	Bearing Retainer				
X-959	1	Terminal					GAS-75	1	D.E. Head				
GAR-211	1	Insulating Bushing					IGP-34	1	Felt Wick				
MN-21	2	Dowel Pin					SC-127	1	Felt Washer				
MZ-38	2	Pole Piece Screw					8X-55	3	#8-32x3/8 Rd. Hd. Screw				
X-140	1	#6-32 Hex. Nut					X-195	3	#8 Lock Washer				
X-755	1	Terminal					X-294	1	Ball Brg. - S.A.E. #202				
X-1275	1	#8 Skpf. Washer					X-489	1	1/4 Oiler - Press in Type				
X-1350	1	#6-32x7/16 Flat Hd. Screw					<u>Miscellaneous Parts</u>						
X-544	2	#10 Lock Washer					CB-4014	1	Circuit Breaker Assy.				
<u>Comm. End Plate Assembly & Parts Used With</u>						CB-123	1	Armature Spring					
GAS-69	1	Comm. End Cap Cover					CB-160	1	C.B. Cover				
GAS-70	1	End Cap Cover Gasket					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
GAS-71	1	Brg. Retaining Washer					X-196	2	#10 Lock Washer				
GAS-77	1	Felt Washer					8X-312	1	#10-32x1/4 Rd. Hd. Screw				
GAS-78	1	Felt Washer Retainer					GAS-87	2	C.B. Spacer				
(GAS-3068)	1	Comm. End Plate Assy.					GAS-1024	1	Head Band Assembly				
GAS-51	2	3rd Brush Plate Retain'g Spring					X-196	2	#10 Lock Washer				
GAS-68	1	Comm. End Plate					8X-311	2	#10-32x3/8 Rd. Hd. Screw				
GAS-2021L	1	Brush Holder Plate Assy.					X-715	1	#10-32x1 1/4 Rd. Hd. Screw				
GAL-31	1	Ground Connector Assy.					8X-794	1	#10-32 Square Nut				
X-958	2	Terminal							1	2	3	4	5
GAS-12	2	Brush - Main					(Issued 1-24-36)						
GAS-15	2	Brush Holder											
GAS-17	1	Brush Spring											
GAS-18	1	Brush Spring											
GAS-1021L	1	Brush Holder Plate Part Assy.											
8X-878	2	#8-32x7/16 Fill. Hd. Screw											
X-1275	2	#8 Skpf. Washer											
GAS-2072L	1	3rd Brush Holder Plate Assembly											
GAS-13	1	Brush - Third											
GAS-15	1	Brush Holder											
GAS-18	1	Brush Spring											
GAS-1072L	1	3rd Brush Holder Plate Part Assy.											
X-1275	1	#8 Skpf. Washer											
8X-1349	1	#8-32x3/8 Fill. Hd. Sc.											
8X-55	3	#8-32x3/8 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
X-489	1	1/4 Oiler - Press in Type											
IA-175	1	Flat Steel Washer											
8X-61	1	#10-32x7/16 Flat Hd. Screw											
X-63	3	#8-32x3/8 Flat Hd. Screw											
X-293	1	Ball Brg. - S.A.E. #201											
		1	2	3	4	5							

Printed in U. S. A.

File in
Equipment & Parts Lists Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4127 GENERATOR PARTS LIST

GAS-4127

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS-151	2	Bolt, Thru
(GAS-2149)	1	Frame & Field Assy.
GAS-44	1	Insulation, Field Connection
GAS-45	4	Holder, Field Coil
GAS-86	1	Lead Assy.
X-1423	1	Terminal
GAS-2005A	1	COIL ASSY., FIELD, COMP.
GAS-1007B	1	Coil Assy., Field, Left
X-1423	1	Terminal
GAS-1008A	1	Coil Assy., Field, Right
X-959	1	Terminal
GT-7	1	Bushing, Insulating
MN-21	2	Pin, Dowel
MZ-38A	2	Screw, Pole Shoe
X-140	1	Nut, Hex., #6-32
X-755	1	Terminal
X-1275	1	Washer, Skpf., #8
X-1350	1	Screw, Flat Hd., #6-32x7/16
X-544	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used With

GAS-69A	1	Cover, Comm. End
GAS-70	1	Gasket, Cover, Comm. End
GAS-71	1	Washer, Bearing Retaining
GAS-77	1	Washer, Felt
GAS-78	1	Retainer, Felt Washer
GAS-2079B	1	Head Assy., Comm. End
GAS-51	2	Spring, Retaining, 3rd. Brush Plate
GAS-79A	1	Head
GAS-2021R	1	Plate Assy., Main Brush
GAL-31	1	Lead Assy., Ground
X-958	2	Terminal
GAS-15	2	Holder, Brush
GAS-17	1	Spring, Brush, Grounded
GAS-18	1	Spring, Brush, Insulated
GAS-1021R	1	Plate, Main Brush
GEM-12 †	2	Brush, Main
8X-122	1	Screw, Grounded Brush, Fill Hd. #8-32x1/2
12X-195	2	Lockwasher, Brush Sc.#8
8X-1496	1	Screw, Insulated Brush, Bdg. Hd. #8-32x7/16
GAS-2082R	1	Plate Assy., 3rd Brush
GAS-15	1	Holder, Brush
GAS-17	1	Spring, Brush
GAS-1082R	1	Plate, 3rd Brush
GEM-13 †	1	Brush
12X-195	1	Lockwasher, Brush Sc., #8

Comm. End Head Assy. (Continued)

Part No.	No. Used	Name of Part
8X-1496	1	Screw, Brush Hd., #8-32x7/16
8X-55	3	Screw, Rd. Hd., #8-32x3/8
X-195	1	Lockwasher, #8
X-489	1	Oiler, Press in Type, 1/4
IA-175	1	Washer, Felt Retaining
8X-61	1	Screw, Bearing Retaining, Flat Hd., #10-32x7/16
X-63	3	Screw, Flat Hd. #8-32x3/8
X-293	1	BEARING BALL S.A.E. #201

Armature Assembly & Parts Used With

GAS-152	1	Oil Thrower
GAS-2153	1	ARMA TURE ASSY.
GAS-53	1	Snap Ring, D.E.
IA-158	1	Snap Ring, C.E.
GR-32A	1	Retainer, Felt Washer
X-160	1	Nut, Shaft, D.E. Hex., 7/16-20
X-1278	1	Washer, Shaft Skpf. 7/16
X-1460A	1	Key, Woodruff, #212

Drive End Head Assembly & Parts Used With

GAS-150	1	Gasket, D.E. Head
GAS-1154	1	Head Assy., Drive End
GAS-154	1	Head
GAS-155	1	Retainer, Bearing
GAS-156	1	Gasket, Retainer
GAS-324	1	Retainer, Felt Washer
GG-164	1	Washer, Felt
X-196	3	Lockwasher, #10
8X-311	3	Screw, Rd. Hd., #10-32x3/8
X-1470	1	BEARING, BALL, SHIELDED, S.A.E. #202

Miscellaneous Parts

CB-4014	1	RELAY ASSY., CUTOUT
GAS-87	2	Spacer, C.B. Mounting
GAS-1024	1	Band, Cover
X-196	2	Lockwasher, C.B. Mtg., Sc., #10
8X-311	2	Screw, Circuit Breaker Mtg., Rd. Hd., #10-32x3/8
8X-714	1	Screw, Cover Band, Rd. Hd., #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE GEM-2012S.

UNIT	APPLICATION
GAS-4127	Hercules

(Issued 8-24-48)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4128 GENERATOR PARTS LIST

GAS-4128

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With									
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
GAS-151	2	Frame Screw					GAS-152	1	Oil Thrower					
(GAS-2157)	1	Frame & Field Assy.					GAS-2153	1	Armature Assy.					
GAS-29	2	Pole Piece					GAS-53	1	Snap Ring					
GAS-44	1	Field Connection Ins.					IA-158	1	Snap Ring					
GAS-45	4	Field Coil Holder					X-160	1	7/16-20 Hex. Nut					
GAS-86	1	C.B. Lead Assy.					X-1278	1	7/16 Skpf. Washer					
X-1423	1	Terminal					X-1460	1	#212 Woodruff Key					
GAS-2005A	1	Field Coil Assy. - Comp.					Drive End Head Assembly & Parts Used With							
GAS-1007B	1	Field Coil Assy. - Left					GAS-150	1	D.E. Head Gasket					
X-1423	1	Terminal					GAS-1154	1	Drive End Head Assy.					
GAS-1C08A	1	Field Coil Assy. - Right					GAS-154	1	Drive End Head					
X-959	1	Terminal					GAS-155	1	Bearing Retainer					
GT-7	1	Insulating Bushing					GAS-156	1	Gasket					
MN-21	2	Dowel Pin					GG-164	1	Felt Washer					
MZ-38	2	Pole Piece Screw					X-196	3	#10 Lock Washer					
X-140	1	#6-32 Hex. Nut					8X-311	3	#10-32x3/8 Rd. Hd. Screw					
X-755	1	Terminal					X-1470	1	Ball Brg. - S.A.E. #202					
X-1275	1	#8 Skpf. Washer					Miscellaneous Parts							
X-1350	1	#6-32x7/16 Flat Hd. Screw					CB-4014	1	Circuit Breaker Assy.					
X-544	2	#10 Lock Washer					CB-123	1	Armature Spring					
Comm. End Plate Assembly & Parts Used With						CB-160	1	C.B. Cover						
GAS-69	1	Comm. End Cap Cover					PX-55	1	#10-32x3/16 Bdg. Hd. Screw					
GAS-70	1	End Cap Cover Gasket					X-196	2	#10 Lock Washer					
GAS-71	1	Brg. Retain'g Washer					8X-312	1	#10-32x1/4 Rd. Hd. Screw					
GAS-77	1	Felt Washer					GAS-87	2	C.B. Spacer					
GAS-78	1	Felt Washer Retainer					GAS-1024	1	Head Band Assy.					
(GAS-2079)	1	Comm. End Plate Assy.					X-196	2	#10 Lock Washer					
GAS-51	2	3rd Brush Plate Retain'g Spring					8X-311	2	#10-32x3/8 Rd. Hd. Screw					
GAS-79	1	Comm. End Plate					X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
GAS-2021R	1	Brush Holder Plate Assy.					8X-794	1	#10-32 Square Nut					
GAL-31	1	Ground Connector Assy.							1	2	3	4	5	
X-958	2	Terminal					(Issued 11-16-36)							
GAS-12†	2	Brush - Main												
GAS-15	2	Brush Holder												
GAS-17	1	Brush Spring												
GAS-18	1	Brush Spring												
GAS-1021R	1	Brush Holder Plate Part Assy.												
8X-878	2	#8-32x7/16 Fill. Hd. Screw												
X-1275	2	#8 Skpf. Washer												
GAS-2082R	1	3rd Brush Holder Plate Assembly												
GAS-13†	1	Brush - Third												
GAS-15	1	Brush Holder												
GAS-17	1	Brush Spring												
GAS-1082R	1	3rd Brush Holder Plate Part Assy.												
X-1275	1	#8 Skpf. Washer												
8X-1349	1	#8-32x3/8 Fill. Hd. Sc.												
8X-55	3	#8-32x3/8 Rd. Hd. Screw												
X-195	1	#8 Lock Washer												
X-489	1	1/4 Oiler - Press in Type												
IA-175	1	Flat Steel Washer												
8X-61	1	#10-32x7/16 Flat Hd. Screw												
X-63	3	#8-32x3/8 Flat Hd. Screw												
X-293	1	Ball Brg. - S.A.E. #201												
		1	2	3	4	5								

† Service Brush Set GAS-2012.

Printed in U.S.A.

File in
Equipment & Parts Lists Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4129 GENERATOR PARTS LIST

GAS-4129

Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-20	2					Frame Screw
(GAS-2158)	1					Frame & Field Assy.
GAS-29	2					Pole Piece
GAS-44	1					Field Connection Ins.
GAS-45	4					Field Coil Holder
GAS-181	1					C. B. Lead Assy.
X-1423	1					Terminal
GAS-2005A	1					Field Coil Assy. - Comp.
GAS-1007B	1					Field Coil Assy.-Left
X-1423	1					Terminal
GAS-1008A	1					Field Coil Assy.-Right
X-959	1					Side Terminal
GT-7	1					Insulating Bushing
MN-21	2					Dowel Pin
MZ-38	2					Pole Piece Screw
X-140	1					#6-32 Hex. Nut
X-755	1					Terminal
X-1275	1					#8 Skpf. Washer
X-1350	1					#6-32x7/16 Flat Hd. Sc.
X-544	2					#10 Lock Washer

Comm. End Plate Assy. & Parts Used With

GAS-69	1					Comm. End Cap Cover
GAS-70	1					End Cap Cover Gasket
GAS-71	1					Bearing Retaining Washer
GAS-77	1					Felt Washer
GAS-78	1					Felt Washer Retainer
(GAS-2147)	1					Comm. End Plate Assy.
GAS-51	2					3rd Brush Plate Retaining Spring
GAS-147	1					Comm. End Plate
GAS-2021R	1					Brush Holder Plate Assy.
GAL-31	1					Ground Connector Assy.
X-958	2					Side Terminal
GAS-12†	2					Brush - Main
GAS-15	2					Brush Holder
GAS-17	1					Brush Spring
GAS-18	1					Brush Spring
GAS-1021R	1					Brush Holder Plate Part Assy.
8X-122	2					#8-32x1/2 Fill. Hd. Sc.
X-1275	2					#8 Skpf. Washer
GAS-2082R	1					3rd Brush Holder Plate Assy.
GAS-13†	1					Brush - Third
GAS-15	1					Brush Holder
GAS-17	1					Brush Spring
GAS-1082R	1					3rd Brush Holder Plate Part Assy.
8X-878	1					#8-32x7/16 Fill. Hd. Sc.
X-1275	1					#8 Skpf. Washer
8X-55	3					#8-32x3/8 Rd. Hd. Sc.
X-195	1					#8 Lock Washer
X-489	1					1/4 Oiler - Press in Type
IA-175	1					Flat Steel Washer
8X-61	1					#10-32x7/16 Flat Hd. Screw
X-63	3					#8-32x3/8 Flat Hd. Screw
X-293	1					Ball Bearing - S.A.E. #201
		1	2	3	4	5

Armature Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-2111	1					Armature Assembly
GAR-171	1					Snap Ring
IA-158	1					Snap Ring
GJ-179	1					7/16 Plain Washer
X-160	1					7/16-20 Hex. Nut
X-205	1					7/16 Lock Washer
X-260	1					#5 Woodruff Key

Drive End Head Assy. & Parts Used With

GAS-1146	1					Drive End Head Assy.
GAS-103	1					Cupped Felt Guard
GAS-104	1					Bearing Retainer
GAS-146	1					Drive End Head
GG-164	1					Felt Washer
GT-76	1					Felt Washer Retainer
8X-55	3					#8-32x3/8 Rd. Hd. Screw
X-195	3					#8 Lock Washer
X-295	1					Ball Bearing - S.A.E. #203
X-489	1					1/4 Oiler - Press in Type

Miscellaneous Parts

CB-4014	1					Circuit Breaker Assy.
CB-123	1					Armature Spring
CB-160S	1					C. B. Cover
PX-55	1					#10-32x3/16 Bdg. Hd. Sc.
X-196	2					#10 Lock Washer
8X-312	1					#10-32x1/4 Rd. Hd. Sc.
GAS-87	2					C. B. Spacer
GAS-1024A	1					Head Band Assy.
X-196	2					#10 Lock Washer
8X-311	2					#10-32x3/8 Rd. Hd. Screw
X-714	1					#10-32x1 1/2 Rd. Hd. Screw
8X-794	1					#10-32 Square Nut
		1	2	3	4	5

(Issued 4-25-41)

† Service Brush Set GAS-2012.

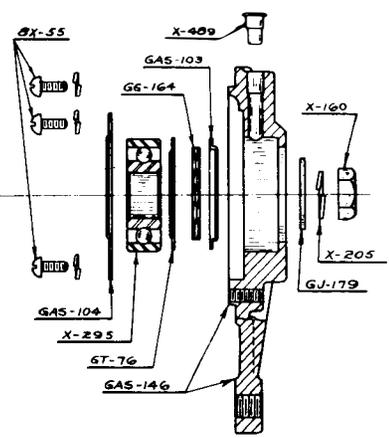
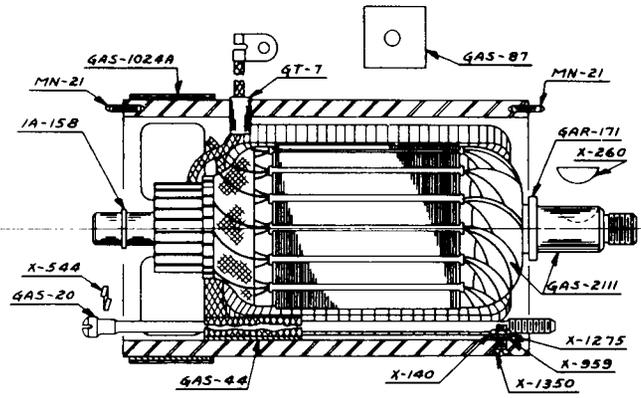
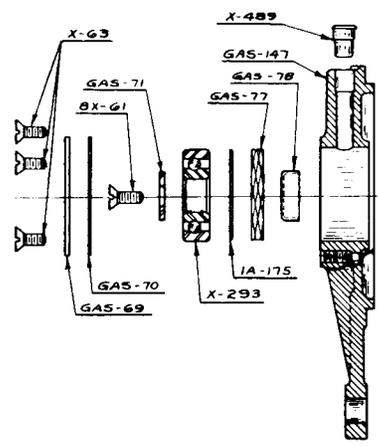
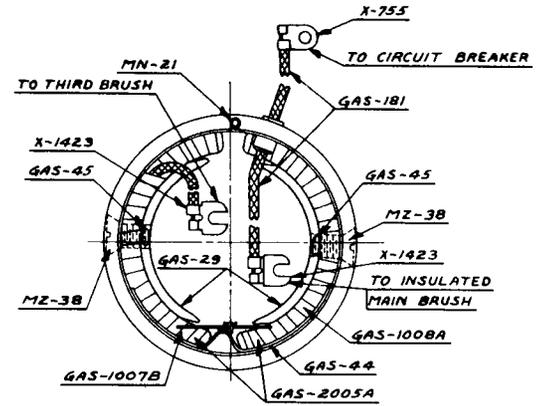
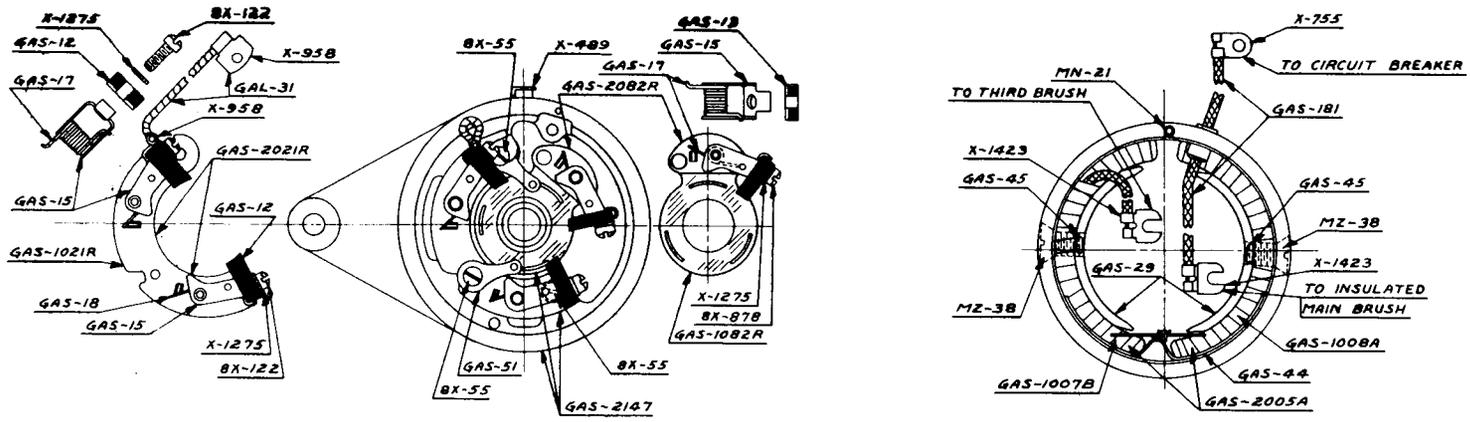
UNIT	APPLICATION
GAS-4129	Le Roi

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAS-4129 GENERATOR ILLUSTRATION



GAS-4129
File A-822

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4131 GENERATOR PARTS LIST

GAS-4131

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GAS-20A	2	Frame Screw					
(GAS-2091A)	1	Frame & Field Assembly					
GAS-29	2	Pole Piece					
GAS-44	1	Field Connection Ins.					
GAS-45	4	Field Coil Holder					
GAS-86	1	C.B. Lead Assy.					
X-1423	1	Terminal					
GAS-2005A	1	Field Coil Assy. - Comp.					
GAS-1007B	1	Field Coil Assy. - Left					
X-1423	1	Terminal					
GAS-1008A	1	Field Coil Assy. - Right					
X-959	1	Terminal					
GT-7	1	Insulating Tube					
MN-21	2	Dowel Pin					
MZ-38A	2	Pole Piece Screw					
X-140	1	#6-32 Hex. Nut					
X-755	1	Terminal					
X-1275	1	#8 Skpf. Washer					
X-1350	1	#6-32x7/16 Flat Hd. Screw					
X-544	2	#10 Lock Washer					

Comm. End Plate Assembly & Parts Used With

GAS-69A	1	Comm. End Cap Cover					
GAS-70	1	End Cap Cover Gasket					
GAS-71	1	Brg. Retain'g Washer					
GAS-77	1	Felt Washer					
GAS-78	1	Felt Washer Retainer					
(GAS-2079C)	1	Comm. End Plate Assy.					
GAS-51	2	3rd Brush Plate Assy.					
GAS-79B	1	Comm. End Plate					
GAS-2021R	1	Brush Holder Plate Assy.					
GAL-31	1	Ground Connector Assy.					
X-958	2	Terminal					
GAS-12‡	2	Brush - Main					
GAS-15	2	Brush Holder					
GAS-17	1	Brush Spring					
GAS-18	1	Brush Spring					
GAS-1021R	1	Brush Holder Plate Part Assy.					
8X-878	2	#8-32x7/16 Fill. Hd. Screw					
X-1275	2	#8 Skpf. Washer					
GAS-2082RA	1	3rd Brush Holder Plate Assembly					
GAS-13‡	1	Brush - Third					
GAS-15	1	Brush Holder					
GAS-17	1	Brush Spring					
GAS-1082RA	1	3rd Brush Holder Plate Part Assy.					
X-1275	1	#8 Skpf. Washer					
8X-1349	1	#8-32x3/8 Fill. Hd. Sc.					
8X-55	3	#8-32x3/8 Rd. Hd. Screw					
X-195	1	#8 Lock Washer					
X-489	1	1/4 Oiler - Press in Type					
IA-175	1	Flat Steel Washer					
8X-61	1	#10-32x7/16 Flat Hd. Screw					
8X-63	3	#8-32x3/8 Flat Hd. Screw					
X-293	1	Ball Brg. - S.A.E. #201					
		1 2 3 4 5					

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GAS-89	1	Armature Shaft Spacer					
GAS-2076	1	Armature Assembly					
GAS-53	1	Snap Ring					
IA-158	1	Snap Ring					
8X-160	1	7/16-20 Hex. Nut					
X-1278	1	7/16 Skpf. Washer					
X-1460	1	#212 Woodruff Key					

Drive End Head Assembly & Parts Used With

GAS-1075D	1	Drive End Head Assy.					
DB-13	1	Flat Felt Guard					
GAS-73	1	Cupped Felt Guard					
GAS-74	1	Bearing Retainer					
GAS-75B	1	Drive End Head					
IGP-34	1	Felt Wick					
SC-127	1	Felt Washer					
8X-55	3	#8-32x3/8 Rd. Hd. Screw					
X-195	3	#8 Lock Washer					
X-294	1	Ball Brg. - S.A.E. #202					
X-489	1	1/4 Oiler - Press in Type					

Miscellaneous Parts

CB-4014	1	Circuit Breaker Assy.					
CB-123	1	Armature Spring					
CB-160	1	C.B. Cover					
PX-55	1	#10-32x3/16 Bdg. Hd. Sc.					
X-196	2	#10 Lock Washer					
8X-312	1	#10-32x1/4 Rd. Hd. Screw					
GAS-87A	2	C.B. Spacer					
GAS-1024B	1	Head Band Assembly					
12X-196	2	#10 Lock Washer					
8X-311	2	#10-32x3/8 Rd. Hd. Screw					
8X-715	1	#10-32x1 1/4 Rd. Hd. Screw					
8X-794	1	#10-32 Square Nut					
		1 2 3 4 5					

(Issued 11-18-36)

‡ Service Brush Set GAS-2012.

Printed in U. S. A.

File in
Equipment & Parts Lists Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4132 GENERATOR PARTS LIST

GAS-4132

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20A	2					Frame Screw	GAS-89	1					Armature Shaft Spacer
(GAS-3113A)	1					Frame & Field Assy.	GAS-3114	1					Armature Assembly
GAS-29	2					Pole Piece	GAS-53	1					Snap Ring
GAS-44	1					Field Connection Ins.	8X-160	1					7/16-20 Hex. Nut
GAS-45	4					Field Coil Holder	X-1460	1					#212 Woodruff Key
GAS-86	1					C.B. Lead Assy.	<u>Drive End Head Assembly & Parts Used With</u>						
X-1423	1					Terminal	GAS-1075D	1					Drive End Head Assy.
GAS-2005	1					Field Coil Assy. - Comp.	DB-13	1					Flat Felt Guard
GAS-1007A	1					Field Coil Assy. - Left	GAS-73	1					Cupped Felt Guard
X-1424	1					Terminal	GAS-74	1					Bearing Retainer
GAS-1008A	1					Field Coil Assy. - Right	GAS-75B	1					Drive End Head
X-959	1					Terminal	IGP-34	1					Felt Wick
GT-7	1					Insulating Bushing	SC-127	1					Felt Washer
MN-21	2					Dowel Pin	8X-55	3					#8-32x3/8 Rd. Hd. Screw
MZ-38A	2					Pole Piece Screw	X-195	3					#8 Lock Washer
X-140	1					#6-32 Hex. Nut	X-294	1					Ball Brg. - S.A.E. #202
X-755	1					Terminal	X-489	1					1/4 Oiler - Press in Type
X-1275	1					#8 Skpf. Washer	<u>Dist. Mounting Housing & Parts Used With</u>						
X-1350	1					#6-32x7/16 Flat Hd. Screw	GAG-58A	1					Dist. Mtg. Housing Clamp
X-544	2					#10 Lock Washer	GT-121C	1					Dist. Mtg. Housing
<u>Comm. End Plate Assembly & Parts Used With</u>													Bearing Cover
GAS-52A	1					Grease Hole Cover	IG-86	1					Hinge Pin
(GAS-3002A)	1					Comm. End Plate Assy.	IG-256	1					Dist. Gear - Follower
GAS-51	2					3rd Br. Plate Retain'g Spring	8X-53	1					#8-32x5/8 Rd. Hd. Screw
GAS-1002A	1					Comm. End Plate Part Assy.	8X-141	1					#8-32 Hex. Nut
GAS-49	1					Absorbent Bronze Brg.	8X-505	1					1/8 Pipe Plug
GAS-2014L	1					3rd Brush Holder Plate Assembly	X-544	3					#10 Lock Washer
GAS-13†	1					Brush - Third	8X-900	3					#10-32x7/8 Fill. Hd. Screw
GAS-15	1					Brush Holder	<u>Miscellaneous Parts</u>						
GAS-18	1					Brush Spring	CB-4014B	1					Circuit Breaker Assy.
GAS-1014L	1					3rd Br. Holder Plate Part Assy.	CB-123	1					Armature Spring
X-1275	1					#8 Skpf. Washer	CB-160	1					C.B. Cover
8X-1349	1					#8-32x3/8 Fill. Hd. Sc.	PX-55	1					#10-32x3/16 Bdg. Hd. Sc.
GAS-2021L	1					Brush Holder Plate Assy.	X-196	2					#10 Lock Washer
GAL-31	1					Ground Connector Assy.	8X-312	1					#10-32x1/4 Rd. Hd. Screw
X-958	2					Terminal	GAS-87A	2					C.B. Spacer
GAS-12†	2					Brush - Main	GAS-1024B	1					Head Band Assembly
GAS-15	2					Brush Holder	12X-196	2					#10 Lock Washer
GAS-17	1					Brush Spring	8X-311	2					#10-32x3/8 Rd. Hd. Screw
GAS-18	1					Brush Spring	8X-715	1					#10-32x1 1/4 Rd. Hd. Screw
GAS-1021L	1					Brush Holder Plate Part Assy.	8X-794	1					#10-32 Square Nut
8X-878	2					#8-32x7/16 Fill. Hd. Screw							1 2 3 4 5
X-1275	2					#8 Skpf. Washer	(Issued 12-28-36)						
8X-55	3					#8-32x3/8 Rd. Hd. Screw							
X-195	1					#8 Lock Washer							
		1	2	3	4	5							

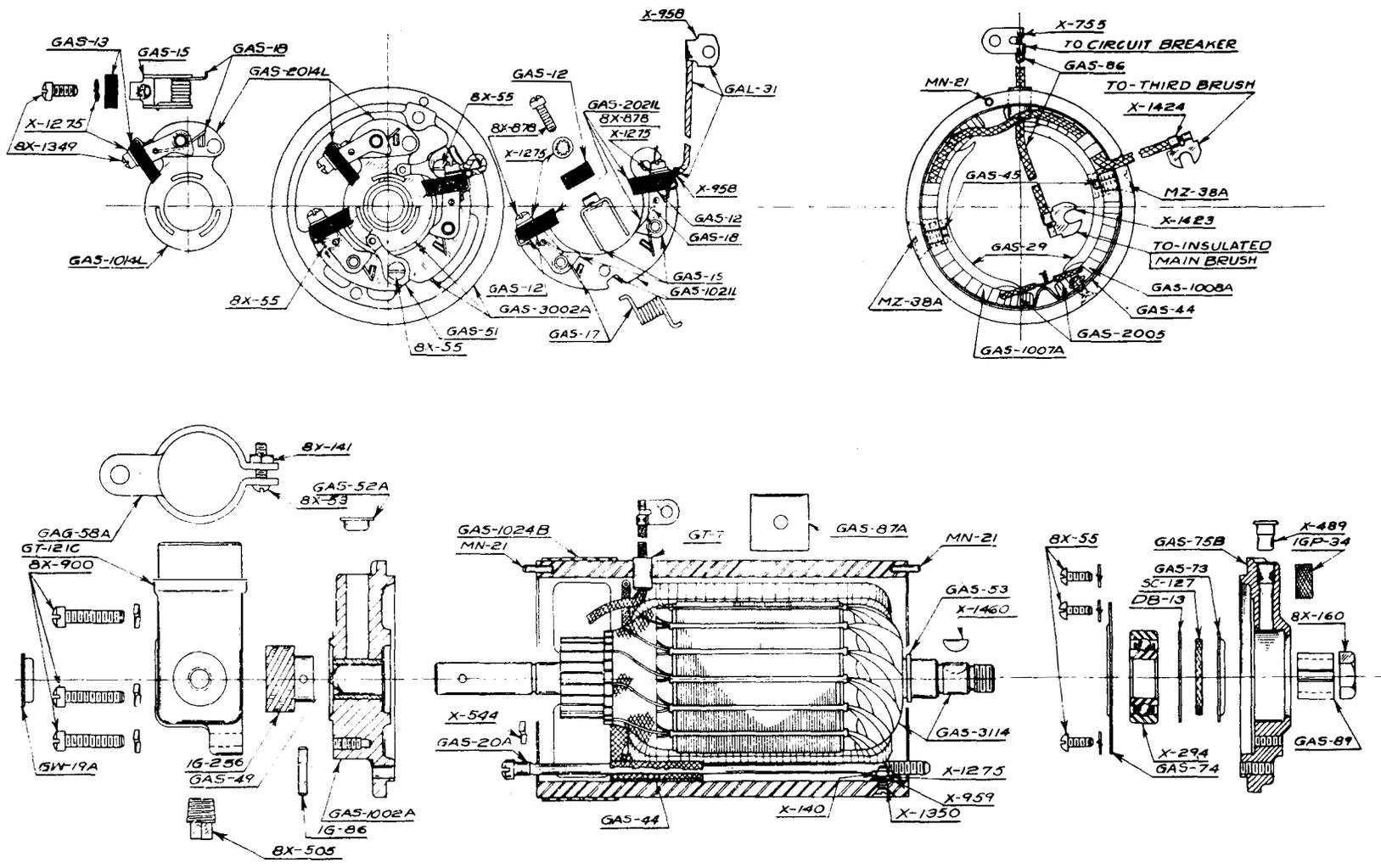
† Service Brush Set GAS-2012.

Printed in U. S. A.

File in
Equipment & Parts Lists Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAS-4132 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4136 GENERATOR PARTS LIST

GAS-4136

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-20	2					Frame Screw
(GAS-2167)	1					Frame & Field Assy.
GAS-29	2					Pole Piece
GAS-44	1					Field Connection Ins.
GAS-45	4					Field Coil Holder
GAS-86	1					C.B. Lead Assy.
X-1423	1					Terminal - Spade Type R.H.
CAS-121	1					Insulating Bushing
GAS-2005D	1					Field Coil Assy.-Comp.
GAS-1007B	1					Field Coil Assy.-Left
X-1423	1					Terminal - Spade Type - L.H.
GAS-1008C	1					Field Coil - Right
MN-21	2					Dowel Pin
MZ-38	2					Pole Piece Screw
X-755	2					Terminal
X-544	2					#10 Lock Washer

Comm. End Plate Assembly & Parts Used With

GAS-69	1	Comm. End Cap Cover
GAS-70	1	End Cap Cover Gasket
GAS-71	1	Erg. Retaining Washer
GAS-77	1	Felt Washer
GAS-78	1	Felt Washer Retainer
(GAS-2147A)	1	Comm. End Plate
GAS-31	2	3rd Brush Plate Retaining Spring
GAS-147	1	Comm. End Plate
GAS-2021R	1	Brush Holder Plate Assy.
GAL-31	1	Ground Connector Assy.
X-958	2	Slide Terminal
GAS-121	2	Brush - Main
GAS-15	2	Brush Holder
GAS-17	1	Brush Spring
GAS-18	1	Brush Spring
GAS-1021R	1	Brush Holder Plate Part Assy.
BX-122	2	#8-32x1/2 Fill.Hd.Sc.
X-1275	2	#8 Skpf. Washer
GAS-2082RA	1	3rd Brush Holded Plate Assy.
GAS-131	1	Brush - 3rd
GAS-15	1	Brush Holder
GAS-17	1	Brush Spring
GAS-1082RA	1	3rd Brush Holder Plate Part Assy.
BX-378	1	#8-32x7/16 Fill.Hd.Sc.
X-1275	1	#8 Skpf. Washer
BX-55	3	#8-32x3/8 Rd. Hd. Sc.
X-195	1	#8 Lock Washer
X-489	1	1/4 Oiler - Press in Type
IA-175	1	Flat Steel Washer
BX-61	1	#10-32x7/16 Flat Hd. Sc.
X-63	3	#8-32x3/8 Flat Hd. Sc.
X-293	1	Ball Brg. - S.A.E. #201
		1 2 3 4 5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-2111	1					Armature Assy.
GAR-171	1					Snap Ring
IA-158	1					Snap Ring
GJ-179	1					7/16 Plain Washer
X-160	1					7/16-20 Hex. Nut
X-205	1					7/16 Lock Washer
X-260	1					#5 Woodruff Key

Drive End Head Assembly & Parts Used With

GAS-1146	1	Drive End Head Assy.
GAS-103	1	Cupped Felt Guard
GAS-104	1	Bearing Retainer
GAS-146	1	Drive End Head
GG-164	1	Felt Washer
GT-76	1	Felt Washer Retainer
8X-55	3	#8-32x3/8 Rd. Hd. Sc.
X-195	3	#8 Lock Washer
X-295	1	Ball Bearing-S.A.E. #203
X-489	1	1/4 Oiler - Press in Type

Miscellaneous Parts

GAS-168	2	T.C. Regulator Spacer
GAS-1024A	1	Head Bend Assembly
TC-4302A	1	Two Charge regulator & Circuit Breaker
X-195	4	#10 Lock Washer
BX-311	4	#10-32x3/8 Rd. Hd. Sc.
X-714	1	#10-32x1 1/2 Rd. Hd. Sc.
BX-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 12-8-37)

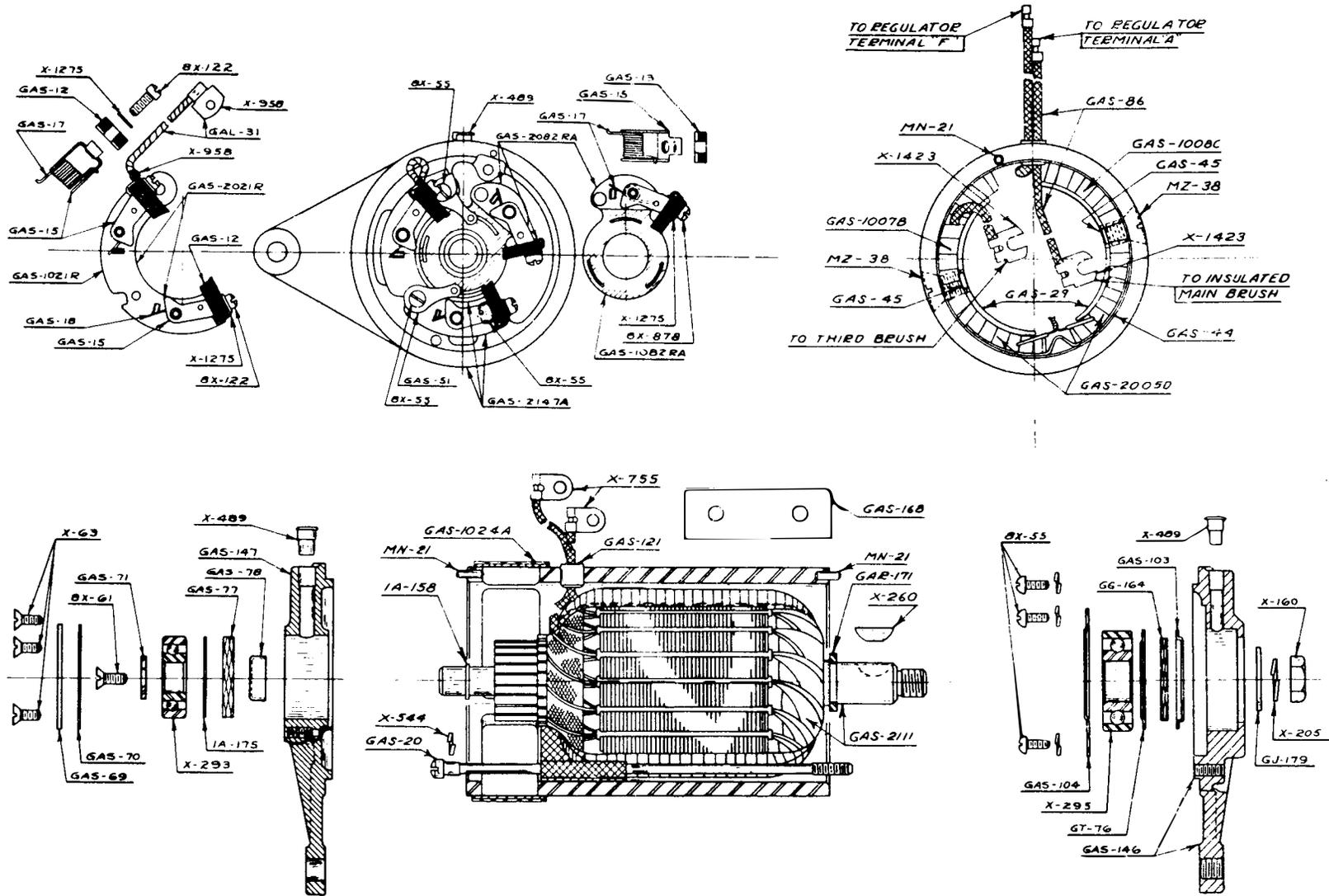
‡ Service Brush Set GAS-2012.

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAS-4136 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4138 GENERATOR PARTS LIST

GAS-4138

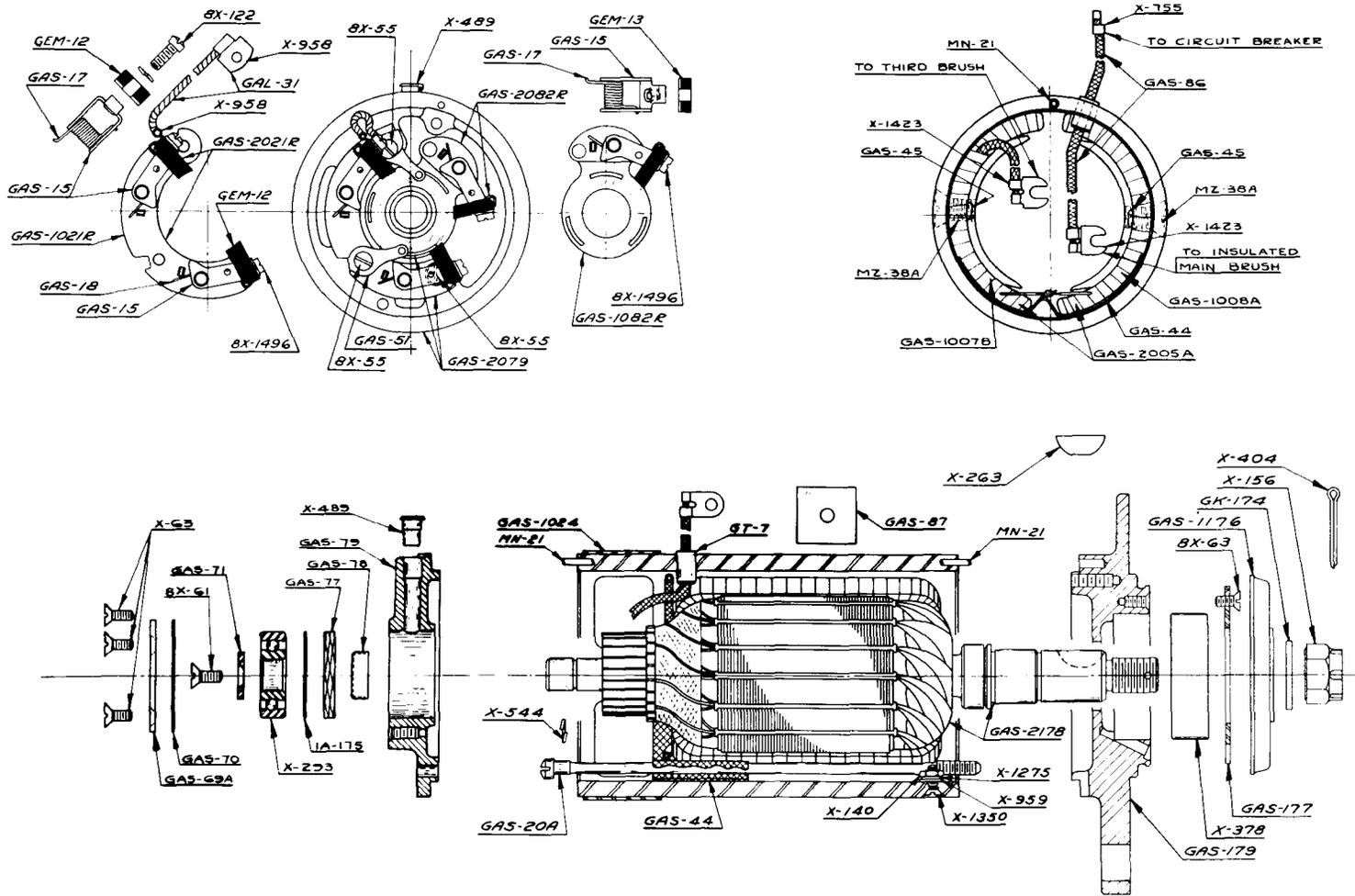
Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)				
Part No.	No. Used	Name of Part			Part No.	No. Used	Name of Part		
		1	2	3 4 5			1	2 3 4 5	
GAS-20A	2	Bolt, Through			8X-55	3	Screw, Plate Attaching, Rd. hd., #8-32x3/8		
(GAS-2138)	1	Frame & Field Assy.			X-195	1	Washer, Lock, Plate Sc., #8		
GAS-44	1	Insulation, Field Connection			X-489	1	Oiler, Hinge Top, Press in, 1/4		
GAS-45	4	Holder, Field Coil			IA-175	1	Washer, Plain, Felt Retaining		
GAS-86	1	Lead Assy.			8X-61	1	Screw, Bearing Retaining, Flat hd., #10-32x7/16		
X-1423	1	Terminal			X-63	3	Screw, Cover Holding, Flat hd., #8-32x3/8		
GAS-2005A	1	Coil Assy., Field, Comp.			X-293	1	Bearing, Ball, S.A.E. #201		
GAS-1007B	1	Coil Assy., Field, Left			<u>Armature Assembly & Parts Used With</u>				
X-1423	1	Terminal			GAS-1176	1	Oil Thrower		
GAS-1008A	1	Coil Assy., Field, Right			GAS-2178	1	Armature Assy.		
X-959	1	Terminal			IA-158	1	Snap Ring, C.E.		
GT-7	1	Bushing, Insulating			GK-174	1	Washer, Plain, Armature Shaft, 1/2		
MN-21	2	Pin, Dowel. Head Locating			X-156	1	Nut, Armature Shaft, Hex., Castellated, 1/2-20		
MZ-38	2	Screw, Pole Shoe			X-263	1	Key, Woodruff, #8		
X-140	1	Nut, Field Ground, Hex., #6-32			X-404	1	Pin, Cotter, 3/32x1		
X-755	1	Terminal			<u>Drive End Head Assembly & Parts Used With</u>				
X-1275	1	Washer, Skpf., Field Grd., #8			GAS-1179	1	Head Assy., Drive End		
X-1350	1	Screw, Field Ground, Flat hd., #6-32x7/16			GAS-177	1	Retainer, Bearing		
X-544	2	Washer, Lock, Thru Bolt, #10			GAS-179	1	Head		
<u>Comm. End Head Assembly & Parts Used With</u>					8X-63	3	Screw, Retainer, Flat hd., #8-32x3/8		
GAS-69A	1	Cover, Comm. End			X-378	1	Bearing, Ball, Shielded, S.A.E. #204		
GAS-70	1	Gasket, Cover, Comm. End			<u>Miscellaneous Parts</u>				
GAS-71	1	Washer, Bearing Retaining			CB-4014	1	Relay Assy., Cutout		
GAS-77	1	Washer, Felt			CB-123	1	Spring, Armature		
GAS-78	1	Retainer, Felt Washer			CB-160S	1	Cover		
(GAS-2079)	1	Head Assy., Comm. End			PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16		
GAS-51	2	Spring, Retaining, 3rd Brush Plate			X-196	1	Washer, Lock, Term. Sc., #10		
GAS-79	1	Head			8X-312	1	Screw, Bat. Term., Rd. hd., #10-32x1/4		
GAS-2021R	1	Plate Assy., Main Brush			GAS-87	2	Spacer, Relay Mounting		
GAL-31	1	Lead Assy., Ground			GAS-1024	1	Band, Cover		
X-958	2	Terminal			X-196	2	Washer, Lock, Cutout Relay Mtg., #10		
GAS-15	2	Holder, Brush			8X-311	2	Screw, Mounting, Cutout Relay, Rd. hd., #10-32x3/8		
GAS-17	1	Spring, Brush, Grounded			X-714	1	Screw, Cover Band, Rd. hd., #10-32x1 1/2		
GAS-18	1	Spring, Brush, Insulated			8X-794	1	Nut, Cover Band, Square, #10-32		
GAS-1021R	1	Main Brush Plate					1	2 3 4 5	
GEM-12‡	2	Brush, Main			(Issued 3-11-44)				
8X-122	1	Screw, Grounded Brush, Fil hd., #8-32x1/22							
X-1013	2	Washer, Lock, Brush Screw, #8							
8X-1496	1	Screw, Ins. Brush, Bdg. hd., #8-32x7/16							
GAS-2082R	1	Plate Assy., 3rd Brush							
GAS-15	1	Holder, Brush							
GAS-17	1	Spring, Brush							
GAS-1082R	1	Plate, 3rd Brush							
GEM-13‡	1	Brush							
X-1013	1	Washer, Lock, Brush Screw, #8							
8X-1496	1	Screw, Brush, Bdg. hd., #8-32x7/16							
		1	2	3 4 5					

‡ Brush Set, GEM-2012S.

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."



GAS-4138 GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4139A GENERATOR PARTS LIST

GAS-4139A

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20	2	Frame Screw					GAS-2076	1	ARMATURE ASSY.				
(GAS-2162)	1	Frame & Field Assy.					GAS-53	1	Snap Ring				
GAS-29	2	Pole Piece					IA-158	1	Snap Ring				
GAS-44	1	Field Connection Ins.					SP-90	1	Drive Pulley				
GAS-45	4	Field Coil Holder					X-160	1	7/16-20 Hex. Nut				
GAS-86	1	C.B. Lead Assy.					X-1278	1	7/16 Skpf. Washer				
X-1423	1	Terminal					X-1460	1	#212 Woodruff Key				
GAS-2005A	1	FIELD COIL ASSY.-Comp.					<u>Drive End Head Assembly & Parts Used With</u>						
GAS-1007B	1	Field Coil Assy.-Left					GAS-1075	1	Drive End Head Assy.				
X-1423	1	Terminal					DB-13	1	Flat Felt Guard				
GAS-1008A	1	Field Coil Assy.-Right					GAS-73	1	Cupped Felt Guard				
X-959	1	Side Terminal					GAS-74	1	Bearing Retainer				
GT-7	1	Ins. Tube					GAS-75	1	Drive End Head				
MN-21	2	Dowel Pin					IGP-34	1	Felt Wick				
MZ-38	2	Pole Piece Screw					SC-127	1	Felt Washer				
X-140	1	#6-32 Hex. Nut					6X-55	3	#8-32x3/8 Rd. Hd. Screw				
X-755	1	Terminal					X-195	3	#8 Lock Washer				
X-1275	1	#8 Skpf. Washer					X-294	1	BALL BEARING - S.A.E. #202				
X-1350	1	#6-32x7/16 Flat Hd. Sc.					X-489	1	1/4 Oiler - Press in Type				
X-544	2	#10 Lock Washer											
<u>Comm. End Plate Assembly & Parts Used With</u>						<u>Miscellaneous Parts</u>							
GAS-9	1	Comm. End Cap Cover					CB-4014	1	CIRCUIT BREAKER Assy.				
GAS-70	1	End Cap Cover Gasket					CB-123	1	Armature Spring				
GAS-71	1	Bearing Retaining Washer					CB-160S	1	Circuit Breaker Cover				
GAS-77	1	Felt Washer					PX-55	1	#10-32x3/16 Bdg. Hd. Screw				
GAS-78	1	Felt Washer Retainer					X-196	1	#10 Lock Washer				
(GAS-2079)	1	Comm. End Plate Assy.					8X-312	1	#10-32x1/4 Rd. Hd. Screw				
GAS-51	2	3rd Brush Plate Retain- ing Spring					GAS-37	2	Circuit Breaker Spacer				
GAS-79	1	Comm. End Plate					GAS-1024	1	Head Band Assy.				
GAS-2021R	1	Brush Holder Plate Assy.					X-196	2	#10 Lock Washer				
GAL-31	1	Ground Connector Assy.					8X-311	2	#10-32x3/8 Rd. Hd. Screw				
X-958	2	Side Terminal					X-714	1	#10-32x1 1/2 Rd. Hd. Screw				
GAS-12†	2	Brush - Main					8X-794	1	#10-32 Square Nut				
GAS-15	2	Brush Holder							1	2	3	4	5
GAS-17	1	Brush Spring					(Issued 4-3-39)						
GAS-18	1	Brush Spring											
GAS-1021R	1	Brush Holder Plate Part Assy.											
8X-122	2	#8-32x1/2 Fill. Hd. Sc.											
X-1275	2	#8 Skpf. Washer											
GAS-2082R	1	3rd Brush Holder Plate Assy.											
GAS-13†	1	Brush - Third											
GAS-15	1	Brush Holder											
GAS-17	1	Brush Spring											
GAS-1082R	1	3rd Brush Holder Plate Part Assy.											
8X-878	1	#8-32x7/16 Fill. Hd. Sc. Screw											
X-1275	1	#8 Skpf. Washer											
6X-55	3	#8-32x3/8 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
X-489	1	1/4 Oiler - Press in Type											
IA-175	1	Flat Steel Washer											
8X-61	1	#10-32x7/16 Flat Hd. Screw											
X-63	3	#8-32x3/8 Flat Hd. Screw											
X-293	1	BALL BEARING - S.A.E. 201											
		1	2	3	4	5							

UNIT	APPLICATION
GAS-4139A	American Fantam

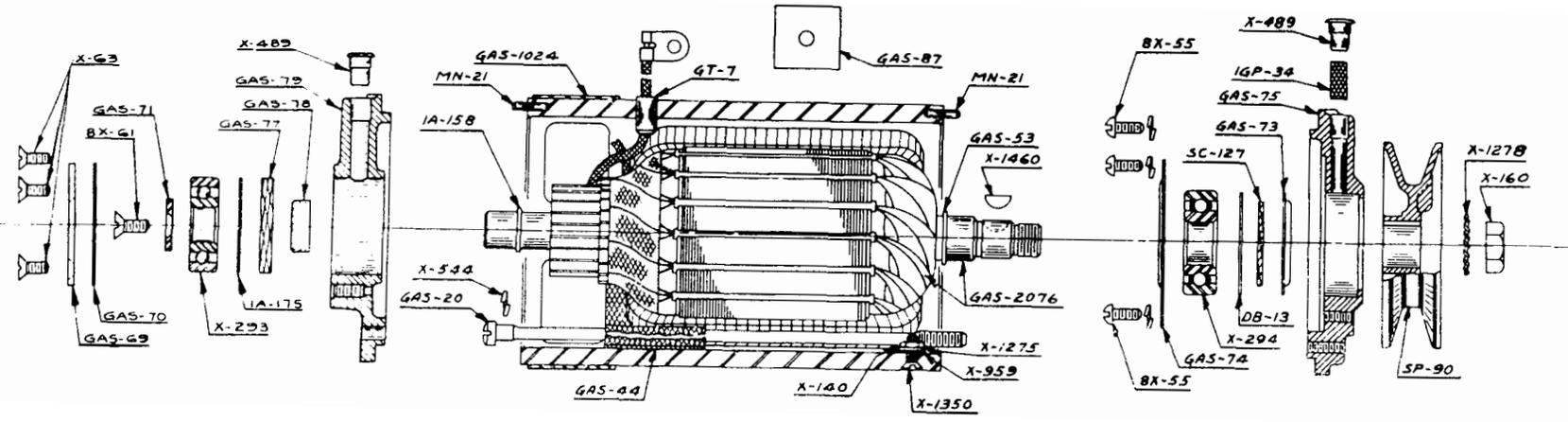
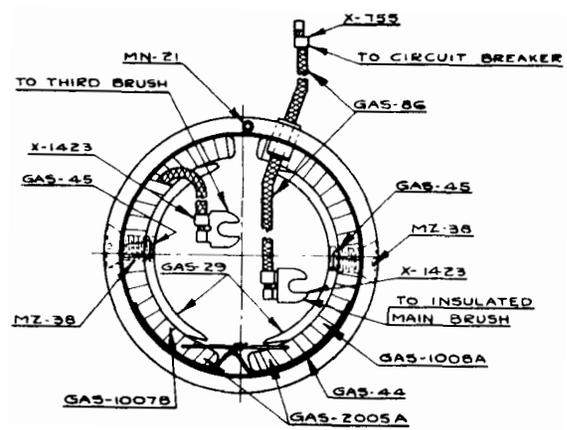
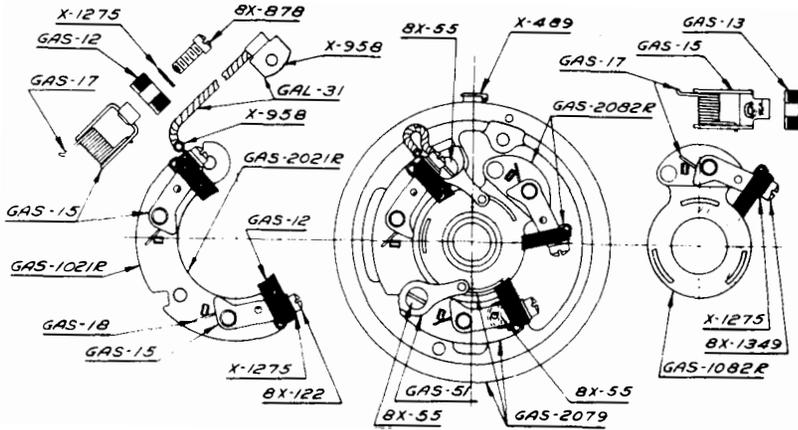
† Service BRUSH SET GAS-2012.

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAS-4139A GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4140 GENERATOR PARTS LIST

GAS-4140

Frame & Field Assembly & Parts Used With					Comm. End Head Assy. (Con't.)								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20A	2						8X-55	3					
(GAS-2180)	1						X-195	1					
GAS-44	1						X-489	1					
GAS-45	4						IA-175	1					
GAS-86	1						8X-61	1					
X-1423	1						X-63	3					
GAS-2005A	1						X-293	1					
GAS-1007B	1						<u>Armature Assembly & Parts Used With</u>						
X-1423	1						GAS-129	1					
GAS-1008A	1						GAS-2136	1					
X-959	1						GAS-53	1					
GT-7	1						IA-158	1					
MN-21	2						X-160	1					
MZ-38	2						X-1278	1					
X-140	1						X-1460	1					
X-755	1						<u>Drive End Head Assembly & Parts Used With</u>						
X-1275	1						GAS-1137	1					
X-1350	1						GAS-137	1					
X-544	2						GAS-139	1					
<u>Comm. End Head Assembly & Parts Used With</u>							GAS-140	1					
GAS-69A	1						8X-55	3					
GAS-70	1						X-195	3					
GAS-71	1						X-1470	1					
GAS-77	1						<u>Miscellaneous Parts</u>						
GAS-78	1						CB-4012	1					
(GAS-2079)	1						CB-123	1					
GAS-51	2						CB-160S	1					
GAS-79	1						PX-55	1					
GAS-2021R	1						X-196	2					
GAL-31	1						8X-312	1					
X-958	2						GAS-1024	1					
GAS-15	2						X-196	2					
GAS-17	1						8X-321	2					
GAS-18	1						X-714	1					
GAS-1021R	1						8X-794	1					
GEM-12*	2												
8X-122	1												
X-1013	2												
8X-1496	1												
GAS-2082R	1												
GAS-15	1												
GAS-17	1												
GAS-1082R	1												
GEM-13*	1												
X-1013	1												
8X-1496	1												

(Issued 4-26-44)

* Brush Set, Service, GEM-2012S.

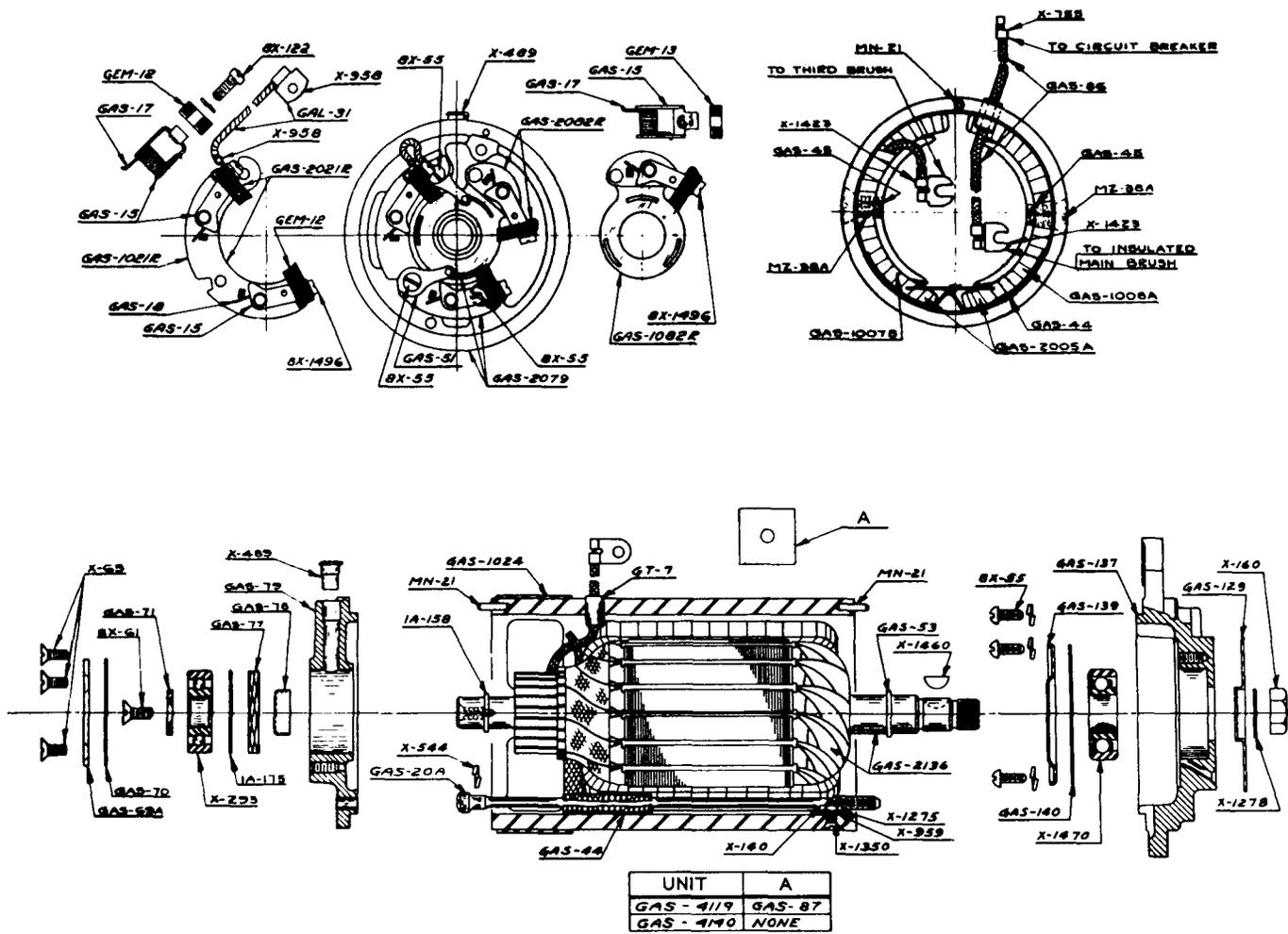
1 2 3 4 5

Printed in U. S. A.

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

File in
Equipment & Parts List Binder

GAS-4140 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4141 GENERATOR PARTS LIST

GAS-4141

Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-20	2					Frame Screw
(GAS-2185)	1					Frame & Field Assembly
GAS-29	2					Pole Piece
GAS-44	1					Field Connection Ins.
GAS-45	4					Field Coil Holder
GAS-86	1					C. B. Lead Assembly
X-1423	1					Terminal
GAS-2005A	1					FIELD COIL ASSY.- Comp.
GAS-1007B	1					Field Coil Assy.-Left
X-1423	1					Terminal
GAS-1008A	1					Field Coil Assy.-Right
X-959	1					Terminal
GT-7	1					Insulating Tube
MN-21	2					Dowel Pin
MZ-38	2					Pole Piece Screw
X-140	1					#6-32 Hex. Nut
X-755	1					Terminal
X-1275	1					#8 Skpf. Washer
X-1350	1					#6-32x7/16 Flat Hd. Sc.
X-544	2					#10 Lock Washer

Comm. End Plate Assy. & Parts Used With

GAS-69	1	Comm. End Cap Cover
GAS-70	1	End Cap Cover Gasket
GAS-71	1	Bearing Retaining Washer
GAS-77	1	Felt Washer
GAS-78	1	Felt Washer Retainer
(GAS-2079)	1	Comm. End Plate Assembly
GAS-51	2	3rd Brush Plate Retaining Spring
GAS-79	1	Comm. End Plate
GAS-2021R	1	Brush Holder Plate Assy.
GAL-31	1	Ground Connector Assy.
X-958	2	Terminal
GAS-12†	2	Brush - Main
GAS-15	2	Brush Holder
GAS-17	1	Brush Spring
GAS-18	1	Brush Spring
GAS-1021R	1	Br. Holder Plate Part Assembly
8X-122	2	#8-32x1/2 Fill. Hd. Sc.
X-1275	2	#8 Skpf. Washer
GAS-2082R	1	3rd Brush Holder Plate Assembly
GAS-13†	1	Brush - Third
GAS-15	1	Brush Holder
GAS-17	1	Brush Spring
GAS-1082R	1	3rd Brush Holder Plate Part Assembly
8X-878	1	#8-32x7/16 Fill. Hd. Sc.
X-1275	1	#8 Skpf. Washer
8X-55	3	#8-32x3/8 Rd. Hd. Screw
X-195	1	#8 Lock Washer
X-489	1	1/4 Oiler - Press in Type
IA-175	1	Flat Steel Washer
8X-61	1	#10-32x7/16 Flat Hd. Screw
X-63	3	#8-32x3/8 Flat Hd. Screw
X-293	1	BALL BEARING - S.A.E. #201
		1 2 3 4 5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-2076	1					ARMATURE ASSEMBLY
GAS-53	1					Snap Ring
IA-158	1					Snap Ring
X-160	1					7/16-20 Hex. Nut
X-1278	1					7/16 Skpf. Washer
X-1460	1					#212 Woodruff Key

Drive End Head Assy. & Parts Used With

GAS-1075E	1	Drive End Head Assembly
DB-13	1	Flat Felt Guard
GAS-73	1	Cupped Felt Guard
GAS-74	1	Bearing Retainer
GAS-75B	1	Drive End Head
IGP-34	1	Felt Wick
SC-127	1	Felt Washer
8X-55	3	#8-32x3/8 Rd. Hd. Sc.
X-195	3	#8 Lock Washer
X-294	1	BALL BRG.- S.A.E. #202
X-489	1	1/4 Oiler - Press in Type

Miscellaneous Parts

CB-4014	1	CIRCUIT BREAKER ASSEMBLY
CB-123	1	Armature Spring
CB-160S	1	C. B. Cover
PX-55	1	#10-32x3/16 Bdg. Hd. Sc.
X-196	2	#10 Lock Washer
8X-312	1	#10-32x1/4 Rd. Hd. Screw
GAS-87	2	C. B. Spacer
GAS-1024	1	Head Band Assembly
X-196	2	#10 Lock Washer
8X-311	2	#10-32x3/8 Rd. Hd. Screw
X-714	1	#10-32x1 1/2 Rd. Hd. Screw
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 5-2-40)

† Service BRUSH SET GAS-2012.

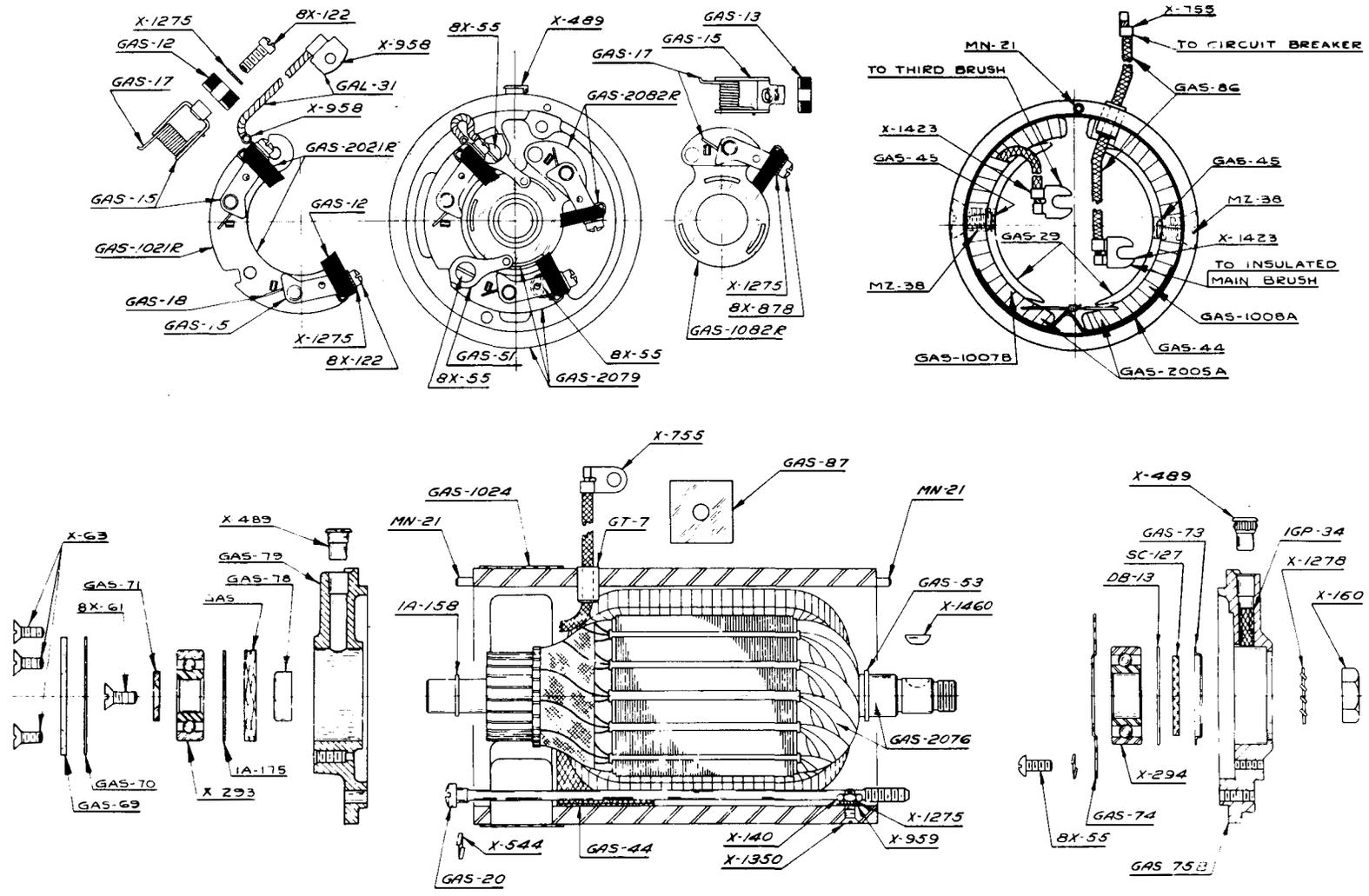
UNIT	APPLICATION
GAS-4141	Climax, Regal Mfg. Co.

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAS-4141 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4143.A GENERATOR PARTS LIST

GAS-4143,A

Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20A	2	Bolt, Thru					IA-175	1	Washer, Plain, Felt Retaining				
(GAS-2163)	1	Frame & Field Assy.					8X-61	1	Screw, Bearing Retaining, Flat hd., #10-32x7/16				
GAS-44	1	Insulation, Field Connection					X-63	3	Screw, Cover Holding, Flat hd., #8-32x3/8				
GAS-45	4	Holder, Field Coil					X-293	1	Bearing, Ball, S.A.E. #201				
GAS-86	1	Lead Assy.					<u>Armature Assembly & Parts Used With</u>						
X-1423	1	Terminal					GAS-2076	1	Armature Assy.				
GAS-121	1	Bushing, Insulating					GAS-53	1	Snap Ring, D.E.				
GAS-2005D	1	Coil Assy., Field, Comp.					IA-158	1	Snap Ring, C.E.				
GAS-1007B	1	Coil Assy., Field, Left					*	1	Pulley, Drive				
X-1423	1	Terminal					X-160	1	Nut, Armature Shaft, Hex., 7/16-20				
GAS-1008C	1	Coil, Field, Right					X-1278	1	Washer, Skpf., Arm. Shaft, 7/16				
MN-21	2	Pin, Dowel, Head Locating					X-1460	1	Key, Woodruff, #212				
MZ-38	2	Screw, Pole Shoe					<u>Drive End Head Assembly & Parts Used With</u>						
X-755	2	Terminal					GAS-1075E	1	Head Assy., Drive End				
X-544	2	Washer, Lock, Thru Bolt, #10					DB-13	1	Retainer, Felt Washer, Flat				
<u>Comm. End Head Assembly & Parts Used With</u>					GAS-73	1	Retainer, Felt Washer, Cupped						
GAS-69A	1	Cover, Comm. End					GAS-74	1	Retainer, Bearing				
GAS-70	1	Gasket, Cover, Comm. End					GAS-75B	1	Head				
GAS-71	1	Washer, Felt					IGP-34	1	Wick, Felt				
GAS-77	1	Washer, Felt					SC-127	1	Washer, Felt				
GAS-78	1	Retainer, Felt Washer					8X-55	3	Screw, Retainer, Rd. hd., #8-32x3/8				
(GAS-2079E)	1	Head Assy., Comm. End					X-195	3	Washer, Lock, Retainer Sc., #8				
GAS-51	2	Spring, Retaining, 3rd. Brush Plate					X-294	1	Bearing, Ball, S.A.E. #202				
GAS-79	1	Head					X-489	1	Oiler, Hinge Top, Press in, 1/4				
GAS-2021R	1	Plate Assy., Main Brush					<u>Miscellaneous Parts</u>						
GAL-31	1	Lead Assy., Ground					GAS-1171	1	Band, Cover				
X-958	2	Terminal					TC-4305A	1	Regulator				
GAS-15	2	Holder, Brush					X-118	1	Screw, Head Band, Fil. hd., #10-32x3/4				
GAS-17	1	Spring, Brush, Grounded					X-196	4	Washer, Lock, Regulator Mtg., #10				
GAS-18	1	Spring, Brush, Insulated					8X-321	4	Screw, Mtg., Regulator, Rd. hd., #10-32x5/16				
GAS-1021R	1	Plate, Main Brush							1	2	3	4	5
GEM-12†	2	Brush, Main					(Issued 3-11-44)						
8X-122	1	Screw, Grounded, Brush, Fil. hd., #8-32x1/2					Assembly	Pulley,					
X-1013	2	Washer, Lock, Brush Screw, #8					No.	Drive					
8X-1496	1	Screw, Ins., Brush, Bdg. hd., #8-32x7/16					GAS-4143	None					
GAS-2082R	1	Plate Assy., 3rd Brush					GAS-4143A	SP-90					
GAS-15	1	Holder, Brush											
GAS-17	1	Spring, Brush											
GAS-1082R	1	Plate, 3rd Brush											
GEM-13†	1	Brush											
X-1013	1	Washer, Lock, Brush Screw, #8											
8X-1496	1	Screw, Brush, Bdg. hd., #8-32x7/16											
8X-55	3	Screw, Plate Attaching Rd. hd., #8-32x3/8											
X-195	1	Washer, Lock, Plate Sc., #8											
X-386	1	Oiler, Ball, Press in, 1/4											
		1	2	3	4	5							

† Brush Set, Service, GEM-2012S.

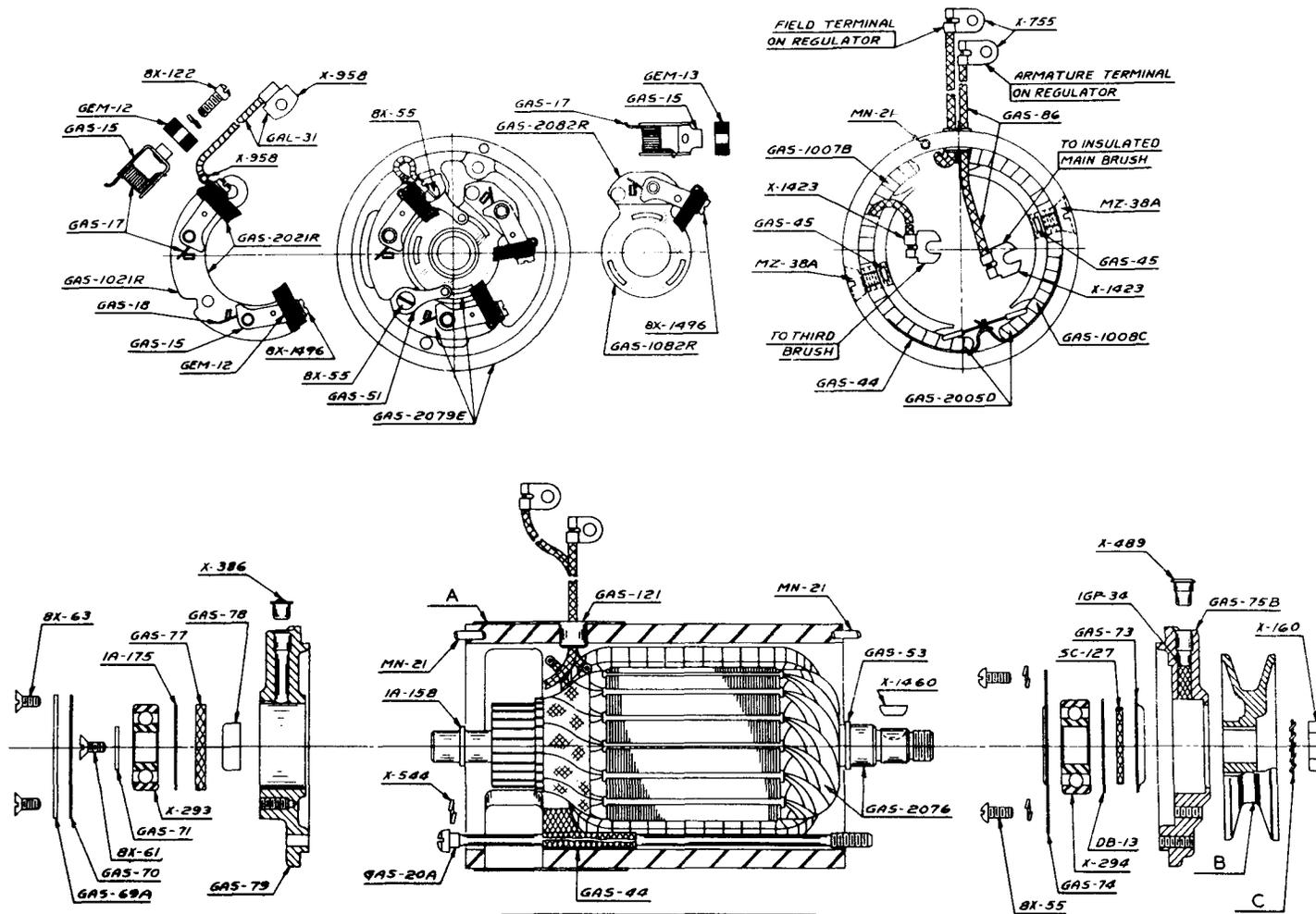
* See table following parts list for part number applying to assembly wanted.

Printed in U. S. A.

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

File in
Equipment & Parts List Binder

GAS-4143, A GENERATOR ILLUSTRATION



UNIT	A	B	C
GAS-4143	GAS-1171	NONE	X-1278
GAS-4143A	GAS-1171	SP-90	X-1278

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4144 GENERATOR PARTS LIST

GAS-4144

Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-20	2	Frame Screw				
(GAS-2138)	1	Frame & Field Assembly				
GAS-29	2	Pole Piece				
GAS-44	1	Field Connection Ins.				
GAS-45	4	Field Coil Holder				
GAS-86	1	C. B. Lead Assembly				
X-1423	1	Terminal				
GAS-2005A	1	FIELD COIL ASSY.- Comp.				
GAS-1007B	1	Field Coil Assy.-Left				
X-1423	1	Terminal				
GAS-1008A	1	Field Coil Assy.-Right				
X-959	1	Terminal				
GT-7	1	Insulating Tube				
MN-21	2	Dowel Pin				
MZ-38	2	Pole Piece Screw				
X-140	1	#6-32 Hex. Nut				
X-755	1	Terminal				
X-1275	1	#8 Skpf. Washer				
X-1350	1	#6-32x7/16 Flat Hd. Sc.				
X-544	2	#10 Lock Washer				

Comm. End Plate Assy. & Parts Used With

GAS-69	1	Comm. End Cap Cover				
GAS-70	1	End Cap Cover Gasket				
GAS-71	1	Bearing Retaining Washer				
GAS-77	1	Felt Washer				
GAS-78	1	Felt Washer Retainer				
(GAS-2147)	1	Comm. End Plate Assembly				
GAS-51	2	3rd Brush Plate Retaining Spring				
GAS-147	1	Comm. End Plate				
GAS-2021R	1	Brush Holder Plate Assy.				
GAL-31	1	Ground Connector Assy.				
X-958	2	Terminal				
GAS-121	2	Brush - Main				
GAS-15	2	Brush Holder				
GAS-17	1	Brush Spring				
GAS-18	1	Brush Spring				
GAS-1021R	1	Br. Holder Plate Part Assembly				
8X-122	2	#8-32x1/2 Fill. Hd. Sc.				
X-1275	2	#8 Skpf. Washer				
GAS-2082R	1	3rd Brush Holder Plate Assembly				
GAS-131	1	Brush - Third				
GAS-15	1	Brush Holder				
GAS-17	1	Brush Spring				
GAS-1082R	1	3rd Brush Holder Plate Part Assembly				
8X-878	1	#8-32x7/16 Fill.Hd. Sc.				
X-1275	1	#8 Skpf. Washer				
8X-55	3	#8-32x3/8 Rd. Hd. Screw				
X-195	1	#8 Lock Washer				
X-489	1	1/4 Oiler - Press in Type				
IA-175	1	Flat Steel Washer				
8X-61	1	#10-32x7/16 Flat Hd. Screw				
X-63	3	#8-32x3/8 Flat Hd. Screw				
X-293	1	BALL BEARING - S.A.E. #201				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-2111	1	ARMATURE ASSEMBLY				
GAR-171	1	Snap Ring				
IA-158	1	Snap Ring				
GJ-179	1	7/16 Plain Washer				
SP-363	1	Drive Pulley				
X-160	1	7/16-20 Hex. Nut				
X-205	1	7/16 Lock Washer				
X-260	1	#5 Woodruff Key				

Drive End Head Assy. & Parts Used With

GAS-1146	1	Drive End Head Assembly				
GAS-103	1	Cupped Felt Guard				
GAS-104	1	Bearing Retainer				
GAS-146	1	Drive End Head				
GG-164	1	Felt Washer				
GT-76	1	Felt Washer Retainer				
8X-55	3	#8-32x3/8 Rd. Hd. Sc.				
X-195	3	#8 Lock Washer				
X-295	1	BALL BRG. - S.A.E. #203				
X-489	1	1/4 Oiler - Press in Type				

Miscellaneous Parts

CB-4014	1	CIRCUIT BREAKER ASSEMBLY				
CB-123	1	Armature Spring				
CB-160S	1	C. B. Cover				
PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
X-196	2	#10 Lock Washer				
8X-312	1	#10-32x1/4 Rd. Hd. Screw				
GAS-87	2	C. B. Spacer				
GAS-1024A	1	Head Band Assembly				
X-196	2	#10 Lock Washer				
8X-311	2	#10-32x3/8 Rd. Hd. Screw				
X-714	1	#10-32x1 1/2 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 5-2-40)

† Service BRUSH SET GAS-2012.

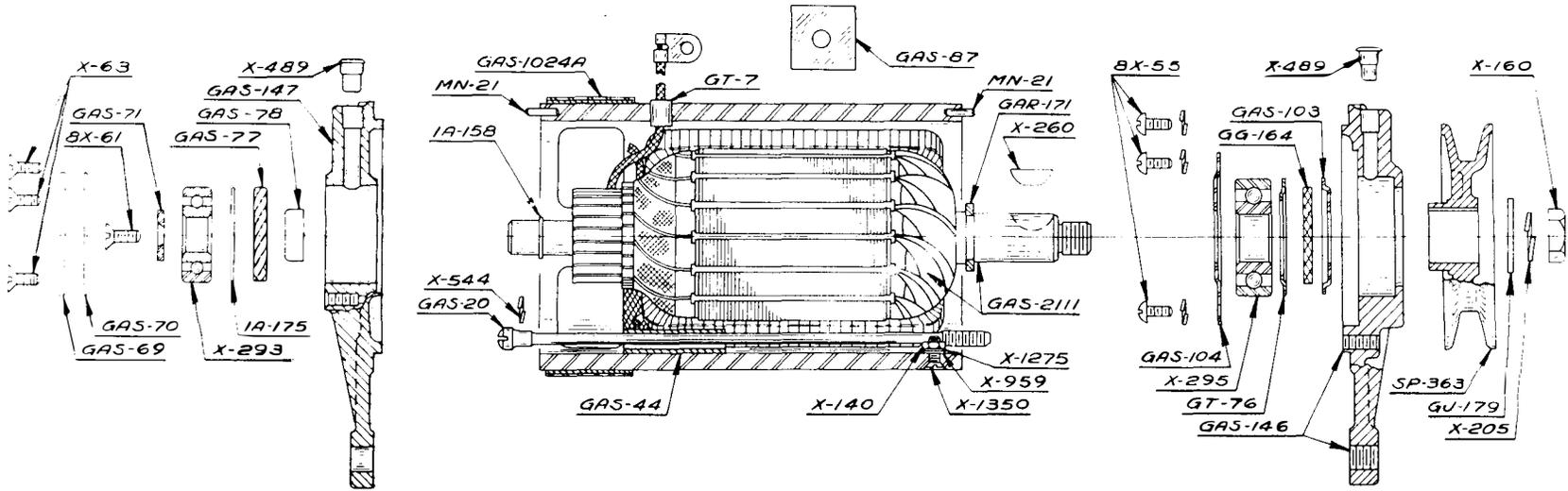
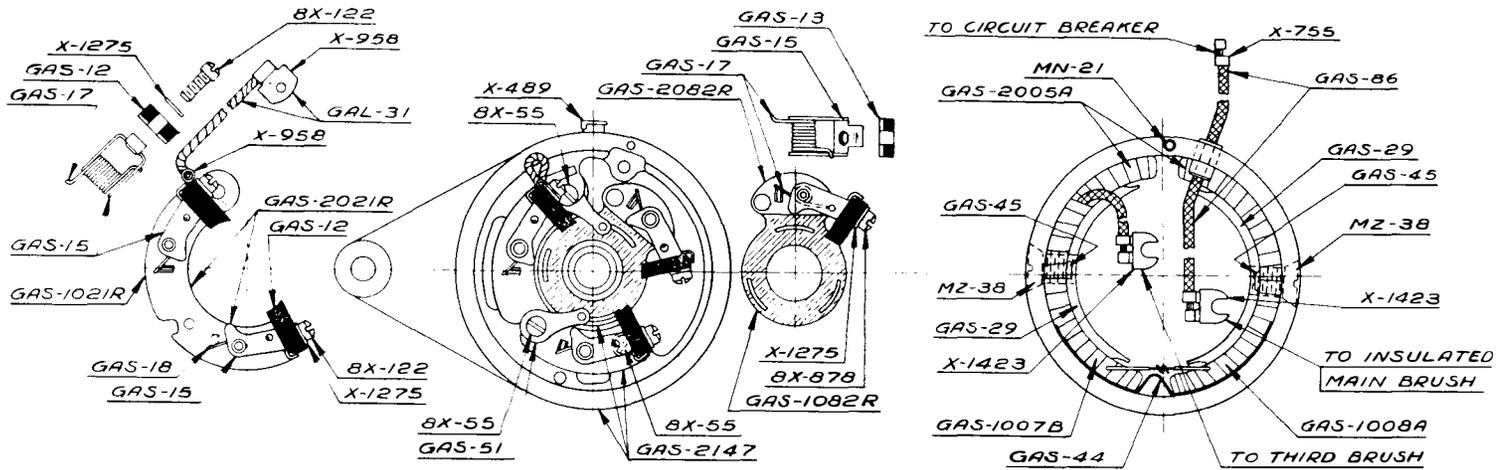
UNIT	APPLICATION
GAS-4144	S. H. Arnolt

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAS-4144 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4145 GENERATOR PARTS LIST

GAS-4145

PRELIMINARY

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-20	2					Frame Screw
(GAS-2187)	1					Frame & Field Assembly
GAS-29	2					Pole Piece
GAS-44	1					Field Connection Ins.
GAS-45	4					Field Coil Holder
GAS-121	1					Insulating Bushing
GAS-181	1					C. B. Lead Assembly
X-1423	1					Terminal
GAS-1005A	1					FIELD COIL ASSY.- Comp.
GAS-1007B	1					Field Coil Assy.-Left
X-1423	1					Terminal
GAS-1008D	1					Field Coil - Right
MN-21	2					Dowel Pin
MZ-38	2					Pole Piece Screw
X-755	2					Terminal
X-544	2					#10 Lock Washer

Comm. End Plate Assembly & Parts Used With

GAS-69	1	Comm. End Cap Cover
GAS-70	1	End Cap Cover Gasket
GAS-71	1	Bearing Retaining Washer
GAS-77	1	Felt Washer
GAS-78	1	Felt Washer Retainer
(GAS-2147)	1	Comm. End Plate Assembly
GAS-51	2	3rd Brush Plate Retaining Spring
GAS-147	1	Comm. End Plate
GAS-2021R	1	Brush Holder Plate Assy.
GAL-31	1	Ground Connector Assy.
X-958	2	Terminal
GAS-12†	2	Brush - Main
GAS-15	2	Brush Holder
GAS-17	1	Brush Spring
GAS-18	1	Brush Spring
GAS-1021R	1	Brush Holder Plate Part Assembly
8X-122	2	#8-32x1/2 Fill. Hd. Sc.
X-1275	2	#8 Skpf. Washer
GAS-2082R	1	3rd Brush Holder Plate Assembly
GAS-13†	1	Brush - Third
GAS-15	1	Brush Holder
GAS-17	1	Brush Spring
GAS-1082R	1	3rd Brush Holder Plate Part Assembly
8X-878	1	#8-32x7/16 Fill. Hd.Sc.
X-1275	1	#8 Skpf. Washer
8X-55	3	#8-32x3/8 Rd. Hd. Screw
X-195	1	#8 Lock Washer
X-489	1	1/4 Oiler - Press in Type
IA-175	1	Flat Steel Washer
8X-61	1	#10-32x7/16 Flat Hd. Screw
X-63	3	#8-32x3/8 Flat Hd. Screw
X-293	1	BALL BEARING - S.A.E. #201
		1 2 3 4 5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-2111	1					ARMATURE ASSEMBLY
GAR-171	1					Snap Ring
IA-158	1					Snap Ring
GJ-179	1					7/16 Plain Washer
X-160	1					7/16-20 Hex. Nut
X-205	1					7/16 Lock Washer
X-260	1					#5 Woodruff Key

Drive End Head Assembly & Parts Used With

GAS-1146	1	Drive End Head Assembly
GAS-103	1	Cupped Felt Guard
GAS-104	1	Bearing Retainer
GAS-146	1	Drive End Head
GG-164	1	Felt Washer
GT-76	1	Felt Washer Retainer
8X-55	3	#8-32x3/8 Rd. Hd. Sc.
X-195	3	#8 Lock Washer
X-295	1	BALL BRG. - S.A.E. #203
X-489	1	1/4 Oiler - Press in Type

Miscellaneous Parts

GAS-168	2	T. C. Regulator Spacer
GAS-1024A	1	Head Band Assembly
TC-4302A	1	TWO CHARGE REGULATOR
X-196	4	#10 Lock Washer
8X-311	4	#10-32x3/8 Rd. Hd. Screw
X-714	1	#10-32x1 1/2 Rd. Hd. Screw
8X-794	1	#10-32 Square Nut
		1 2 3 4 5

(Issued 5-16-41)

† SERVICE BRUSH SET GAS-2012.

UNIT	APPLICATION
GAS-4145	Novo Engine

Printed in U. S. A.

File in
Equipment & Parts List Binder

“NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed.”

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4148 GENERATOR PARTS LIST

GAS-4148

PRELIMINARY

<u>Frame & Field Assembly & Parts Used With</u>						<u>Armature Assembly & Parts Used With</u>							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20	2	Frame Screw					GAS-2111	1	ARMATURE ASSEMBLY				
(GAS-2190)	1	Frame & Field Assembly					GAR-171	1	Snap Ring				
GAS-29	2	Pole Piece					IA-158	1	Snap Ring				
GAS-44	1	Field Connection Ins.					GJ-179	1	7/16 Plain Washer				
GAS-45	4	Field Coil Holder					X-160	1	7/16-20 Hex. Nut				
GAS-121	1	Insulating Bushing					X-205	1	7/16 Lock Washer				
GAS-181	1	C. B. Lead Assembly					X-260	1	#5 Woodruff Key				
X-1423	1	Terminal					<u>Drive End Head Assembly & Parts Used With</u>						
GAS-2005F	1	FIELD COIL ASSY.- Comp.					GAS-1146A	1	Drive End Head Assembly				
GAS-1007B	1	Field Coil Assy.-Left					GAS-103	1	Cupped Felt Guard				
X-1423	1	Terminal					GAS-104	1	Bearing Retainer				
GAS-1008E	1	Field Coil Assy.-Right					GAS-146A	1	Drive End Head				
MN-21	2	Dowel Pin					GG-164	1	Felt Washer				
MZ-38	2	Pole Piece Screw					GT-76	1	Felt Washer Retainer				
X-755	2	Terminal					8X-55	3	#8-32x3/8 Rd. Hd. Screw				
X-544	2	#10 Lock Washer					X-195	3	#8 Lock Washer				
<u>Comm. End Plate Assembly & Parts Used With</u>						X-295	1	BALL BEARING - S.A.E. #203					
GAS-69	1	Comm. End Cap Cover					X-489	1	1/4 Oiler - Press in Type				
GAS-70	1	End Cap Cover Gasket					<u>Miscellaneous Parts</u>						
GAS-71	1	Bearing Retaining Washer					GAS-168	2	T. C. Regulator Spacer				
GAS-77	1	Felt Washer					GAS-1024A	1	Head Band Assembly				
GAS-78	1	Felt Washer Retainer					TC-4302A	1	TWO CHARGE REGULATOR				
(GAS-2147A)	1	Comm. End Plate Assembly					X-196	4	#10 Lock Washer				
GAS-51	2	3rd Br. Plate Retaining Spring					8X-311	4	#10-32x3/8 Rd. Hd. Screw				
GAS-147	1	Comm. End Plate					X-714	1	#10-32x1 1/2 Rd. Hd. Screw				
GAS-2021R	1	Brush Holder Plate Assy.					8X-794	1	#10-32 Square Nut				
GAL-31	1	Ground Connector Assy.							1	2	3	4	5
X-958	2	Terminal					(Issued 4-17-41)						
GAS-12†	2	Brush - Main					† SERVICE BRUSH SET GAS-2012.						
GAS-15	2	Brush Holder											
GAS-17	1	Brush Spring											
GAS-18	1	Brush Spring											
GAS-1021R	1	Brush Holder Plate Part Assembly											
8X-122	2	#8-32x1/2 Fill. Hd. Sc.											
X-1275	2	#8 Skpf. Washer											
GAS-2082RA	1	3rd Brush Holder Plate Assembly											
GAS-13†	1	Brush - Third											
GAS-15	1	Brush Holder											
GAS-17	1	Brush Spring											
GAS-1082RA	1	3rd Br. Holder Plate Part Assembly											
8X-878	1	#8-32x7/16 Fill. Hd. Screw											
X-1275	1	#8 Skpf. Washer											
8X-55	3	#8-32x3/8 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
X-489	1	1/4 Oiler - Press in Type											
IA-175	1	Flat Steel Washer											
8X-61	1	#10-32x7/16 Flat Hd. Screw											
X-63	3	#8-32x3/8 Flat Hd. Screw											
X-293	1	BALL BEARING- S.A.E. #201											
		1	2	3	4	5							

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4149 GENERATOR PARTS LIST

GAS-4149

PRELIMINARY

Frame & Field Assembly & Parts Used With						Armature Assembly & Parts Used With							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20	2	Frame Screw					GAS-3111	1	ARMATURE ASSEMBLY				
(GAS-3190)	1	Frame & Field Assembly					GAR-171	1	Snap Ring				
GAS-29	2	Pole Piece					IA-158	1	Snap Ring				
GAS-44	1	Field Connection Ins.					GJ-179	1	7/16 Plain Washer				
GAS-45	4	Field Coil Holder					X-160	1	7/16-20 Hex. Nut				
GAS-121	1	Insulating Bushing					X-205	1	7/16 Lock Washer				
GAS-181	1	C. B. Lead Assembly					X-260	1	#5 Woodruff Key				
X-1423	1	Terminal					<u>Drive End Head Assembly & Parts Used With</u>						
GAS-2005E	1	FIELD COIL ASSY.- Comp.					GAS-1146A	1	Drive End Head Assembly				
GAS-1007A	1	Field Coil Assy.-Left					GAS-103	1	Cupped Felt Guard				
X-1424	1	Terminal					GAS-104	1	Bearing Retainer				
GAS-1008E	1	Field Coil Assy.-Right					GAS-146A	1	Drive End Head				
MN-21	2	Dowel Pin					GG-164	1	Felt Washer				
MZ-38	2	Pole Piece Screw					QT-76	1	Felt Washer Retainer				
X-755	2	Terminal					8X-55	3	#8-32x3/8 Rd. Hd. Screw				
X-544	2	#10 Lock Washer					X-195	3	#8 Lock Washer				
<u>Comm. End Plate Assembly & Parts Used With</u>						X-295	1	BALL BEARING- S.A.E. #203					
GAS-69	1	Comm. End Cap Cover					X-489	1	1/4 Oiler - Press in Type				
GAS-70	1	End Cap Cover Gasket					<u>Miscellaneous Parts</u>						
GAS-71	1	Bearing Retaining Washer					GAS-168	2	T. C. Regulator Spacer				
GAS-77	1	Felt Washer					GAS-1024A	1	Head Band Assembly				
GAS-78	1	Felt Washer Retainer					TC-4302A	1	TWO CHARGE REGULATOR				
(GAS-3186)	1	Comm. End Plate Assembly					X-196	4	#10 Lock Washer				
GAS-51	2	3rd Brush Plate Retaining Spring					8X-311	4	#10-32x3/8 Rd. Hd. Screw				
GAS-186	1	Comm. End Plate					X-714	1	#10-32x1 1/2 Rd. Hd. Screw				
GAS-2021L	1	Brush Holder Plate Assy.					8X-794	1	#10-32 Square Nut				
GAL-31	1	Ground Connector Assy.							1	2	3	4	5
X-958	2	Terminal					(Issued 4-17-41)						
GAS-12†	2	Brush - Main					† SERVICE BRUSH SET GAS-2012.						
GAS-15	2	Brush Holder											
GAS-17	1	Brush Spring											
GAS-18	1	Brush Spring											
GAS-1021L	1	Br. Holder Plate Part Assembly											
8X-122	2	#8-32x1/2 Fill. Hd. So.											
X-1275	2	#8 Skpf. Washer											
GAS-2072LA	1	3rd Brush Holder Plate Assembly											
GAS-13†	1	Brush - Third											
GAS-15	1	Brush Holder											
GAS-18	1	Brush Spring											
GAS-1072LA	1	3rd Brush Holder Plate Part Assembly											
8X-878	1	#8-32x7/16 Fill. Hd. Screw											
X-1275	1	#8 Skpf. Washer											
8X-55	3	#8-32x3/8 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
X-489	1	1/4 Oiler - Press in Type											
IA-175	1	Flat Steel Washer											
8X-61	1	#10-32x7/16 Flat Hd. Screw											
X-63	3	#8-32x3/8 Flat Hd. Screw											
X-293	1	BALL BEARING - S.A.E. #201											
		1	2	3	4	5							

UNIT	APPLICATION
GAS-4149	Fairmont Rwy.

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4150-1, -1P GENERATOR PARTS LIST

GAS-4150-1, -1P
(Issued 8-22-51)

Frame & Field Assembly & Parts Used With			Comm. End Head Assembly (Continued)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru	GAL-31	1	Lead Assy., Ground
(GAS-3192)	1	Frame & Field Assy.	X-958	2	Terminal
GAS-40	1	Washer, Ins., Term. Stud, Inner	GAS-15	2	Holder, Brush
GAS-41	1	Bushing, Ins., Term. Stud	GAS-17	1	Spring, Brush, Insulated
GAS-44	1	Insulation, Field Connection	GAS-18	1	Spring, Brush, Grounded
GAS-45	4	Holder, Field Coil	GAS-1021L	1	Plate, Main Brush
GAS-47	1	Lead Assembly	GEM-12†	2	Brush
GBF-36	1	Stud, Term., #10-32	8X-122	2	Screw, Brush Holder, Fill. Hd. #8-32x1/2
X-1423	1	Terminal	X-195	2	Lockwasher, Holder Sc., #8
GAS-2005	1	Coil Assy., Field Complete	GAS-2072LA	1	Plate Assy., 3rd Brush
GAS-1007A	1	Coil Assy., Field, Left	GAS-15	1	Holder, Brush
X-1424	1	Terminal	GAS-18	1	Spring, Brush
GAS-1008A	1	Coil Assy., Field, Right	GAS-1072LA	1	Plate, 3rd Brush
X-959	1	Terminal	GEM-13†	1	Brush
GBF-55	1	Washer, Ins., Term. Stud, Outer	X-195	1	Lockwasher, Holder Sc., #8
MN-21	2	Pin, Dowel	8X-878	1	Screw, Br. Holder, Fill. Hd. #8-32x7/16
MZ-38A	2	Screw, Pole Shoe	8X-55	3	Screw, Rd. Hd. #8-32x3/8
X-140	1	Nut, Field Grd. Sc., Hex. #6-32	X-195	1	Lockwasher, #8
X-1274	2	Washer, Term. Stud, Skpf. #10	X-489	1	Oiler
X-1275	1	Washer, Field Grd. Sc., #8	IA-175	1	Washer, Plain
8X-1350	1	Screw, Field Grd., Flat Hd. #6-32x7/16	8X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16
8X-1377	1	Nut, Term. Stud, Hex. #10-32	8X-63	3	Screw, C.E. Cover, Flat Hd. #8-32x3/8
12X-196	3	Lockwasher, Thru Bolt & Term. Stud, #10	X-293	1	Bearing, Ball, S.A.E. #201
8X-1377	1	Nut, Term. Stud, Hex. #10-32			
Comm. End Head Assembly & Parts Used With			Armature Assembly & Parts Used With		
GAS-69A	1	Cover, Comm. End	GAS-3076	1	Armature Assembly
GAS-70	1	Gasket, Cover	GAS-53	1	Snap Ring, D.E.
GAS-71	1	Washer, Brg. Retaining	IA-158	1	Snap Ring, C.E.
GAS-77	1	Washer, Felt	8X-160	1	Nut, Arm. Shaft, D.E.
GAS-78	1	Retainer, Felt Washer	X-1278	1	Washer, Shaft, D.E. Skpf. 7/16
GAS-3191	1	Head Assy., Comm. End	X-1460A	1	Key, Woodruff, #212
GAS-51	2	Spring, Retaining, 3rd Brush Plate			
GAS-191	1	Head, Comm. End	Drive End Head Assy. & Parts Used With		
GAS-2021L	1	Plate Assy., Main Brush	GAS-1193	1	Head Assy., Drive End
			DB-13	1	Retainer, Felt Washer, Flat
			GAS-73	1	Retainer, Felt Washer, Cupped

(Continued on Reverse Side)

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4150-1, -1P GENERATOR PARTS (Continued)

Drive End Head Assy. (Continued)

Part No.	No. Used	Name of Part
GAS-74	1	Retainer, Bearing
GAS-193	1	Head, Drive End
IGP-34	1	Wick, Felt
SC-127	1	Washer, Felt
8X-55	3	Screw, Brg. Retainer, Rd. Hd. #8-32x3/8
X-195	3	Lockwasher, Retainer Sc. , #8
X-294	1	Bearing, Ball, S. A. E. #202
X-489	1	Oiler

Miscellaneous Parts

CB-4014	1	Relay Assy., Cutout
CB-123	1	Spring, Armature
CB-160S	1	Cover, Relay
PX-55	1	Screw, Arm. Term. , Bdg. Hd. #10-32x3/16
12X-196	2	Lockwasher, Term. Sc. , #10
8X-312	1	Screw, Bat. Term. , Rd. Hd. #10-32x1/4
DG-107	1	Lead Assembly
GAS-87A	2	Spacer, Relay Mtg.
GAS-1024E	1	Band, Cover
12X-196	2	Lockwasher, Mtg. Sc. , #10
8X-311	2	Screw, Relay Mtg. , Rd. Hd. #10-32x3/8
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† Brush Set, Service GEM-2012S.

UNIT	APPLICATION
GAS-4150-1	Indian Motorcycle
GAS-4150-1P	Falcon (Marine)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4151-1,A-1 GENERATOR PARTS LIST

GAS-4151-1,A-1

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS -20A	2	Bolt, Thru
(GAS-2091A)	1	Frame & Field Assy.
GAS-44	1	Insulation, Field Connection
GAS-45	4	Holder, Field Coil
GAS-86	1	Lead Assy.
X-1423	1	Terminal
GAS-2005A	1	Coil Assy., Field, Comp.
GAS-1007B	1	Coil Assy., Field, Left
X-1423	1	Terminal
GAS-1008A	1	Coil Assy., Field, Right
X-959	1	Terminal
GT-7	1	Bushing, Lead Insulation
MN-21	?	Pin, Dowel
MZ-38A	2	Screw, Pole Shoe
X-140	1	Nut, Field Ground, Hex., #6-32
X-755	1	Terminal
X-1275	1	Washer, Field Ground, Skpf., #8
8X-1350	1	Screw, Field Ground, Flat Hd. #6-32x7/16
12X-544	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used With

GAS-69A	1	Cover, Comm. End
GAS-70	1	Gasket, C.E. Cover
GAS-71	1	Washer, Bearing Retaining
GAS-77	1	Washer, Felt, C.E., Inner
GAS-78	1	Retainer, Felt Washer
GAS-2079F	1	Head Assy., Comm. End
GAS-51	2	Spring, Retaining, 3rd. Brush Plate
GAS-79B	1	Head
GAS-2021R	1	Plate Assy., Main Brush
GAL-31	1	Lead Assy., Ground
X-958	2	Terminal
GAS-15	2	Holder, Brush
GAS-17	1	Spring, Brush, Grounded
GAS-18	1	Spring, Brush, Insulated
GAS-1021R	1	Plate, Main Brush
GEM-12 †	2	Brush, Main
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2
X-195	2	Lockwasher, Brush Sc., #8
8X-1496	1	Screw, Ins. Brush, Bdg. Hd. #8-32x7/16
GAS-2082RA1	1	Plate Assy., 3rd Brush
GAS-15	1	Holder, Brush
GAS-17	1	Spring, Brush
GAS-1082RA1	1	Plate, 3rd Brush

Comm. End Head Assy. Continued

Part No.	No. Used	Name of Part
GEM-13 †	1	Brush
8X-878	1	Screw, Brush, Fill. Hd., #8-32x7/16
X-195	1	Lockwasher, Brush Sc., #8
8X-55	3	Screw, Plate, Rd. Hd., #8-32x3/8
X-195	1	Lockwasher, Plate Sc., #8
X-489	1	Oiler, Press in Type, 1/4
IA-175	1	Washer, Plain
8X-61	1	Screw, Bearing Retaining, Flat Hd., #10-32x7/16
8X-63	3	Screw, Cover, Flat Hd. #8-32x3/8
X-293	1	Bearing, Ball, S.A.E. #201

Armature Assembly & Parts Used With

GAS-2076	1	Armature Assembly
GAS-53	1	Snap Ring, D.E.
IA-158	1	Snap Ring, C.E.
*	1	Pulley, Drive
8X-160	1	Nut, Shaft, Hex. 7/16-20
X-1460A	1	Key, Woodruff, #212
X-1624	1	Washer, Shaft, Skpf. 7/16

Drive End Head Assembly & Parts Used With

GAS-1075E	1	Head Assy., Drive End
DB-13	1	Retainer, Felt Washer, Flat
GAS-73	1	Retainer, Felt Washer, Cupped
GAS-74	1	Retainer, Bearing
GAS-75B	1	Head
IGP-34	1	Wick, Felt
SC-127	1	Washer, Felt
8X-55	3	Screw, Retainer, Rd. Hd. #8-32x3/8
X-195	3	Lockwasher, Retainer Sc., #8
X-294	1	Bearing, Ball, S.A.E. #202
X-489	1	Oiler, Press in Type, 1/4

Miscellaneous Parts

CB-4014	1	Relay Assy., Cutout
CB-123	1	Spring, Armature
CB-160S	1	Cover
PX-55	1	Screw, Arm. Term., Bdg. Hd. #10-32x3/16
12X-196	2	Lockwasher, Term. Sc., #10
8X-312	1	Screw, Bat. Term., Rd. Hd. #10-32x1/4
GAS-87A	2	Spacer, C.R. Mounting
GAS-1024F	1	Band, Cover

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4151-1,A-1 GENERATOR PARTS LIST Con't.

GAS-4151-1,A-1

Miscellaneous Parts (Continued)

Part No.	No. Used	Name of Part
12X-196	2	Lockwasher, Relay Mtg. Sc., #10
8X-311	2	Screw, Relay Mtg., Rd. Hd. #10-32x3/8
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

* See table following parts list for part number applying to assembly wanted.

NOTE: - Part numbers shown in parenthesis are not recommended for service.

† Brush Set, Service GEM-2012S.

Assembly No.	Pulley
GAS-4151-1	None
GAS-4151A-1	SP-864

UNIT	APPLICATION
GAS-4151-1,A-1	Indian Motorcycle

(Issued 7-12-48)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4152 GENERATOR PARTS LIST

GAS-4152

Frame & Field Assy. & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GAS-20A	2	Frame Screw					
(GAS-3085A)	1	Frame & Field Assembly					
GAS-29	2	Pole Piece					
GAS-44	1	Field Connection Ins.					
GAS-45	4	Field Coil Holder					
GAS-86	1	C. B. Lead Assembly					
X-1423	1	Terminal					
GAS-2005	1	FIELD COIL ASSY.- COMP.					
GAS-1007A	1	Field Coil Assy.-Left					
X-1424	1	Terminal					
GAS-100 A	1	Field Coil Assy.-Right					
X-959	1	Terminal					
GT-7	1	Insulating Tube					
MN-21	2	Dowel Pin					
MZ-38A	2	Pole Piece Screw					
X-140	1	#6-32 Hex. Nut					
X-755	1	Terminal					
X-1275	1	#8 Skpf. Washer					
8X-1350	1	#6-32x7/16 Flat Hd. Sc.					
X-544	2	#10 Lock Washer					

Comm. End Plate Assy. & Parts Used With

GAS-52A	1	Grease Hole Cover					
(GAS-3197)	1	Comm. End Plate Assembly					
GAS-51	2	3rd Br. Plate Retg. Spr.					
GAS-1197	1	C.E. Plate Part Assembly					
GAS-49	1	ABSORBENT BRONZE BRG.					
GAS-2014L	1	3rd Brush Hldr. Plate Assy					
GAS-13†	1	Brush - Third					
GAS-15	1	Brush Holder					
GAS-18	1	Brush Spring					
GAS-1014L	1	3rd Br. Holder Plate Part Assembly					
8X-878	1	#8-32x7/16 Fill. Hd.Sc.					
X-1275	1	#8 Skpf. Washer					
GAS-2021L	1	Brush Hldr. Plate Assy.					
GAL-31	1	Ground Connector Assy.					
X-958	2	Terminal					
GAS-12†	2	Brush - Main					
GAS-15	2	Brush Holder					
GAS-17	1	Brush Spring					
GAS-18	1	Brush Spring					
GAS-1021L	1	Br. Holder Plate Part Assembly					
8X-122	2	#8-32x1/2 Fill.Hd.Sc.					
X-1275	2	#8 Skpf. Washer					
8X-55	3	#8-32x3/8 Rd. Hd. Screw					
X-195	1	#8 Lock Washer					

Armature Assembly & Parts Used With

GAS-3114	1	ARMATURE ASSEMBLY					
GAS-53	1	Snap Ring					
8X-160	1	7/16-20 Hex. Nut					
X-1278	1	7/16 Skpf. Washer					
X-1460	1	#212 Woodruff Key					
			1	2	3	4	5

Drive End Head Assy. & Parts Used With

Part No.	No. Used	Name of Part					
			1	2	3	4	5
GAS-1075D	1	Drive End Head Assembly					
DB-13	1	Flat Felt Guard					
GAS-73	1	Cupped Felt Guard					
GAS-74	1	Bearing Retainer					
GAS-75B	1	Drive End Head					
IGP-34	1	Felt Wick					
SC-127	1	Felt Washer					
8X-55	3	#8-32x3/8 Rd. Hd. Sc.					
X-195	3	#8 Lock Washer					
X-294	1	BALL BRG. - S.A.E. #202					
X-489	1	1/4 Oiler - Press in Type					

Distributor Mtg. Hsg. & Parts Used With

GAG-58A	1	Dist. Mounting Housing Clamp					
GAL-98B	1	Distributor Mounting Housing					
GW-19A	1	Bearing Cover					
IG-86	1	Dist. Drive Rivet					
IG-591	1	Dist. Gear - Driver					
8X-53	1	#8-32x5/8 Rd. Hd. Screw					
8X-141	1	#8-32 Hex. Nut					
8X-505	1	1/8 Pipe Plug					
X-544	3	#10 Lock Washer					
8X-900	3	#10-32x7/8 Fill. Hd. Screw					

Miscellaneous Parts

CB-4014	1	CIRCUIT BREAKER ASSEMBLY					
CB-123	1	Armature Spring					
CB-160S	1	C. B. Cover					
PX-55	1	#10-32x3/16 Bdg. Hd. Sc.					
X-196	2	#10 Lock Washer					
8X-312	1	#10-32x1/4 Rd. Hd. Screw					
GAS-87A	1	C. B. Spacer					
GAS-1024F	1	Head Band Assembly					
X-196	2	#10 Lock Washer					
X-311	2	#10-32x3/8 Rd. Hd. Screw					
8X-714	1	#10-32x1 1/2 Rd. Hd. Screw					
8X-794	1	#10-32 Square Nut					
			1	2	3	4	5

† Service BRUSH SET GAS-2012.

UNIT	APPLICATION
GAS-4152	Indian Motorcycle

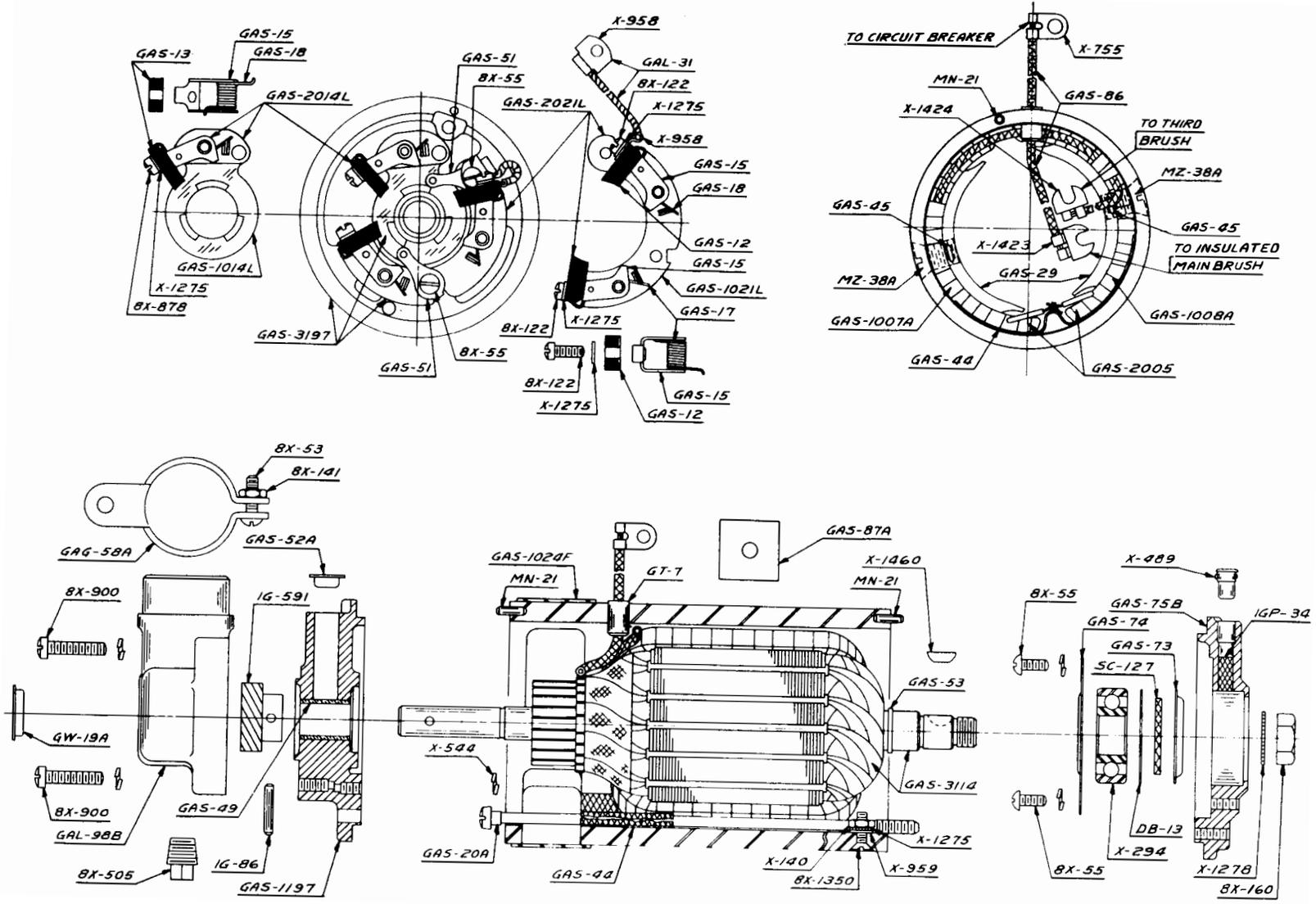
(Issued 12-7-39)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

GAS-4152 GENERATOR ILLUSTRATION



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4153 GENERATOR PARTS LIST

GAS-4153

Frame & Field Assembly & Parts Used With			Comm. End Head Assy. (Continued)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru	GAS-1082R	1	Plate, 3rd. Brush
(GAS-2205)	1	Frame & Field Assy.	GEM-13 †	1	Brush, Third
GAS-44	1	Insulation, Field Connection	X-195	1	Lockwasher, Brush Sc., #8
GAS-45	4	Holder, Field Coil	8X-1496	1	Screw, Brush, Bdg. Hd. #8-32x7/16
GAS-86	1	Lead Assembly	8X-55	3	Screw, Plate Attaching, Rd. Hd #8-32x3/8
X-1423	1	Terminal	X-195	1	Lockwasher, Plate Sc., #8
GAS-2005A	1	COIL ASSY., FIELD, COMPLETE	X-489	1	Oiler
GAS-1007B	1	Coil Assy., Field, Left	IA-175	1	Washer, Plain
X-1423	1	Terminal	8X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16
GAS-1008A	1	Coil Assy., Field, Right	X-63	3	Screw, Cover, Flat Hd. #8-32x3/8
X-959	1	Terminal	X-293	1	BEARING, BALL, S.A.E. #201
GT-7	1	Bushing, Insulating	Armature Assembly & Parts Used With		
MN-21	2	Pin, Dowel	GAS-2076	1	ARMATURE ASSY.
MZ-38A	2	Screw, Pole Shoe	GAS-53	1	Snap Ring, D.E.
X-140	1	Nut, Field Grd. Sc., Hex. #6-32	IA-158	1	Snap Ring, C.E.
X-755	1	Terminal	X-160	1	Nut, Shaft, D.E. Hex. 7/16-20
X-1275	1	Washer, Field Grd. Sc., Skpf. #8	X-1278	1	Washer, Shaft, D.E., Skpf. 7/16
X-1350	1	Screw, Field Grd., Flat Hd. #6-32x7/16	X-1460A	1	Key, Woodruff, #212
X-196	2	Lockwasher, Thru Bolt, #10	Drive End Head Assembly & Parts Used With		
Comm. End Head Assembly & Parts Used With			GAS-1075E	1	Head Assy., Drive End
GAS-69A	1	Cover, Comm. End	DB-13	1	Retainer, Felt Washer, Flat
GAS-70	1	Gasket, C.E. Cover	GAS-73	1	Retainer, Felt Washer, Cupped
GAS-71	1	Washer, Bearing Retaining Sc.	GAS-74	1	Retainer, Bearing
GAS-77	1	Washer, Felt	GAS-75B	1	Head, Drive End
GAS-78	1	Retainer, Felt Washer	IGP-34	1	Wick, Felt
GAS-2079	1	Head Assy., Comm. End	SC-127	1	Washer, Felt
GAS-51	2	Spring, Retaining, 3rd Brush Plate	8X-55	3	Screw, Retainer, Rd. Hd. #8-32x3/8
GAS-79B	1	Head, Comm. End	X-195	3	Lockwasher, Retainer Sc., #8
GAS-2021R	1	Plate Assy., Main Brush	X-294	1	BEARING, BALL, S.A.E. #202
GAL-31	1	Lead Assy., Ground	X-489	1	Oiler
X-958	2	Terminal	(Continued on Reverse Side)		
GAS-15	2	Holder, Brush			
GAS-17	1	Spring, Brush, Grounded			
GAS-18	1	Spring, Brush, Insulated			
GAS-1021R	1	Plate, Main Brush			
GEM-12†	2	Brush, Main			
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2			
X-195	2	Lockwasher, Brush Screw, #8			
8X-1496	1	Screw, Ins., Brush, Bdg. Hd. #8-32x7/16			
GAS-2082R	1	Plate Assy., 3rd. Brush			
GAS-15	1	Holder, Brush			
GAS-17	1	Spring, Brush			

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4153 GENERATOR PARTS (Continued)

Part No.	Miscellaneous Parts	
	No. Used	Name of Part
CB-4014	1	RELAY ASSY., CUTOUT
CB-123	1	Spring, Armature
CB-160S	1	Cover, Relay
PX-55	1	Screw, Arm. Term., Bdg. Hd. #10-32x3/16
12X-196	2	Lockwasher, Term. Sc., #10
8X-312	1	Screw, Bat. Term., Rd. Hd. #10-32x1/4
GAS-87	2	Spacer, Relay Mtg. Sc., #10
GAS-1024F	1	Band, Cover
X-196	2	Lockwasher, Relay Mtg. Sc., #10
8X-311	2	Screw, Relay Mtg., Rd. Hd. #10-32x3/8
X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE GEM-2012S.

UNIT	APPLICATION
GAS-4153	Hercules

(Issued 11-10-49)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4154 GENERATOR PARTS LIST

GAS-4154

Frame & Field Assembly & Parts Used With			Comm. End Head Assy. (Continued)						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
GAS-20A	2	Bolt, Thru	GAS-2082R	1	Plate Assy., 3rd Brush				
(GAS-2206)	1	Frame & Field Assy.	GAS-15	1	Holder, Brush				
GAS-40	2	Washer, Ins., Term. Stud, Inner	GAS-17	1	Spring, Brush				
GAS-41	2	Bushing, Ins., Term. Stud	GAS-1082R	1	Plate, 3rd Brush				
GAS-44	1	Insulation, Field Connection	GEM-13†	1	Brush, Third				
GAS-45	4	Holder, Field Coil	X-195	1	Lockwasher, Brush Sc., #8				
GAS-81	1	Lead Assembly	8X-1496	1	Screw, Brush, Bdg. Hd. #8-32x7/16				
GBF-36	1	Stud, Terminal, #10-32	8X-55	3	Screw, Brush Plate Mtg., Rd. Hd. #8-32x3/8				
X-1423	1	Terminal	X-195	1	Lockwasher, Plate Sc., #8				
GAS-2005H	1	COIL ASSY., FIELD, COMPLETE	X-489	1	Oiler				
GAS-1007B	1	Coil Assy., Field, Left	IA-175	1	Washer, Plain				
X-1423	1	Terminal	8X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16				
GAS-1008G	1	Coil, Field, Right	X-63	3	Screw, Cover, Flat Hd. #8-32x3/8				
GBF-36	1	Stud, Terminal, #10-32	X-293	1	BEARING, BALL, S.A.E. #201				
GBF-55	2	Washer, Ins., Term. Stud, Outer	Armature Assembly & Parts Used With						
MN-21	2	Pin, Dowel	GAS-2111	1	ARMATURE ASSY.				
MZ-38A	2	Screw, Pole Shoe	GAR-171	1	Snap Ring, D.E.				
X-196	2	Lockwasher, Term. Stud, #10	IA-158	1	Snap Ring, C.E.				
X-1274	4	Washer, Term. Stud, Skpf. #10	GJ-179	1	Washer, Arm. Shaft, Plain, D.E.				
8X-1377	4	Nut, Term. Stud, Hex. #10-32	X-160	1	Nut, Shaft, D.E., Hex. 7/16-20				
X-196	3	Lockwasher, Thru Bolt & Ground Screw, #10	X-205	1	Lockwasher, Shaft, D.E., 7/16				
8X-321	1	Screw, Ground Rd. Hd. #10-32x5/16	X-260	1	Key, Woodruff, #5				
Comm. End Head Assembly & Parts Used With			Drive End Head Assembly & Parts Used With						
GAS-69A	1	Cover, Comm. End	GAS-1254	1	Head Assy., Drive End				
GAS-70	1	Gasket, C.E. Cover	GAS-103	1	Retainer, Felt Washer, Cupped				
GAS-71	1	Washer, Bearing Retaining Sc.	GAS-104	1	Retainer, Bearing				
GAS-77	1	Washer, Felt	GAS-254	1	Head				
GAS-78	1	Retainer, Felt Washer	GG-164	1	Washer, Felt				
GAS-2255	1	Head Assy., Comm. End	GT-76	1	Retainer, Felt Washer, Flat				
GAS-51	2	Spring, Retaining, 3rd. Brush Plate	8X-55	3	Screw, Brg. Retainer, Rd. Hd. #8-32x3/8				
GAS-255	1	Head, Comm. End	X-195	3	Lockwasher, Retainer Sc., #8				
GAS-2021R	1	Plate Assy., Main Brush	X-295	1	BEARING, BALL, S.A.E. #203				
GAL-31	1	Lead Assy., Ground	X-489	1	Oiler				
X-958	2	Terminal	Miscellaneous Parts						
GAS-15	2	Holder, Brush	GAS-1024A	1	Band, Cover				
GAS-17	1	Spring, Brush, Grounded	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
GAS-18	1	Spring, Brush, Insulated	8X-794	1	Nut, Cover Band, Square #10-32				
GAS-1021R	1	Plate, Main Brush	† BRUSH SET, SERVICE GEM-2012S.						
GEM-12 †	2	Brush, Main	NOTE: - TC-4317A Two Charge Regulator is used with but is not a part of this generator.						
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">UNIT</td> <td style="padding: 2px;">APPLICATION</td> </tr> <tr> <td style="padding: 2px;">GAS-4154</td> <td style="padding: 2px;">Le Roi</td> </tr> </table>			UNIT	APPLICATION	GAS-4154	Le Roi
UNIT	APPLICATION								
GAS-4154	Le Roi								
X-195	2	Lockwasher, Brush Sc., #8							
8X-1496	1	Screw, Ins., Brush, Bdg. Hd. #8-32x7/16							

Printed in U. S. A.

(Issued 11-10-49)

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4155 GENERATOR PARTS LIST

GAS-4155

PRELIMINARY

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With									
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
GAS-20	2	Frame Screw					GAS-2111	1	ARMATURE ASSEMBLY					
(GAS-2208)	1	Frame & Field Assembly					GAR-171	1	Snap Ring					
GAS-29	2	Pole Piece					IA-158	1	Snap Ring					
GAS-44	1	Field Connection Ins.					GJ-179	1	7/16 Plain Washer					
GAS-45	4	Field Coil Holder					X-160	1	7/16-20 Hex. Nut					
GAS-86	1	Lead Assembly					X-205	1	7/16 Lock Washer					
X-1423	1	Terminal					X-260	1	#5 Woodruff Key					
GAS-2005A	1	FIELD COIL ASSY.-Comp.					<u>Drive End Head Assembly & Parts Used With</u>							
GAS-1007B	1	Field Coil Assy.-Left					GAS-1207	1	Drive End Head Assembly					
X-1423	1	Terminal					GAS-103	1	Cupped Felt Guard					
GAS-1008A	1	Field Coil Assy.-Right					GAS-104	1	Bearing Retainer					
X-959	1	Terminal					GAS-207	1	Drive End Head					
GT-7	1	Insulating Bushing					GG-164	1	Felt Washer					
MN-21	2	Dowel Pin					GT-76	1	Felt Washer Retainer					
MZ-38	2	Pole Piece Screw					8X-55	3	#8-32x3/8 Rd. Hd. Sc.					
X-140	1	#6-32 Hex. Nut					X-195	3	#8 Lock Washer					
X-755	1	Terminal					X-295	1	BALL BEARING - S.A.E. #203					
X-1275	1	#8 Skpf. Washer					X-489	1	1/4 Oiler - Press in Type					
X-1350	1	#6-32x7/16 Flat Hd. Sc.					<u>Miscellaneous Parts</u>							
X-544	2	#10 Lock Washer					CB-4014	1	CIRCUIT BREAKER ASSEMBLY					
<u>Comm. End Plate Assembly & Parts Used With</u>						CB-123	1	Armature Spring						
GAS-69	1	Comm. End Cap Cover					CB-160S	1	C. B. Cover					
GAS-70	1	End Cap Cover Gasket					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.					
GAS-71	1	Bearing Retaining Washer					X-196	2	#10 Lock Washer					
GAS-77	1	Felt Washer					8X-312	1	#10-32x1/4 Rd. Hd. Sc.					
GAS-78	1	Felt Washer Retainer					GAS-87	2	C. B. Spacer					
(GAS-2209)	1	Comm. End Plate Assembly					GAS-1024A	1	Head Band Assembly					
GAS-51	2	3rd Br. Plate Retaining Spring					X-196	2	#10 Lock Washer					
GAS-209	1	Comm. End Plate					8X-311	2	#10-32x3/8 Rd. Hd. Screw					
GAS-2021R	1	Brush Holder Plate Assy.					X-714	1	#10-32x1 1/2 Rd. Hd. Screw					
GAL-31	1	Ground Connector Assy.					8X-794	1	#10-32 Square Nut					
X-958	2	Terminal							1	2	3	4	5	
GAS-121	2	Brush - Main					(Issued 9-30-41)							
GAS-15	2	Brush Holder					† SERVICE BRUSH SET GAS-2012.							
GAS-17	1	Brush Spring												
GAS-18	1	Brush Spring												
GAS-1021R	1	Br. Holder Plate Part Assembly												
8X-122	2	#8-32x1/2 Fill. Hd.Sc.												
X-1275	2	#8 Skpf. Washer												
GAS-2082R	1	3rd Brush Holder Plate Assembly												
GAS-131	1	Brush - Third												
GAS-15	1	Brush Holder												
GAS-17	1	Brush Spring												
GAS-1082R	1	3rd Br. Holder Plate Part Assembly												
8X-878	1	#8-32x7/16 Fill. Hd.Sc.												
X-1275	1	#8 Skpf. Washer												
8X-55	3	#8-32x3/8 Rd. Hd. Screw												
X-195	1	#8 Lock Washer												
X-489	1	1/4 Oiler - Press in Type												
IA-175	1	Flat Steel Washer												
8X-61	1	#10-32x7/16 Flat Hd. Screw												
X-63	3	#8-32x3/8 Flat Hd. Screw												
X-293	1	BALL BEARING- S.A.E. #201												
		1	2	3	4	5								

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

UNIT	APPLICATION
GAS-4155	LeRoi



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4157 GENERATOR PARTS LIST

GAS-4157

PRELIMINARY

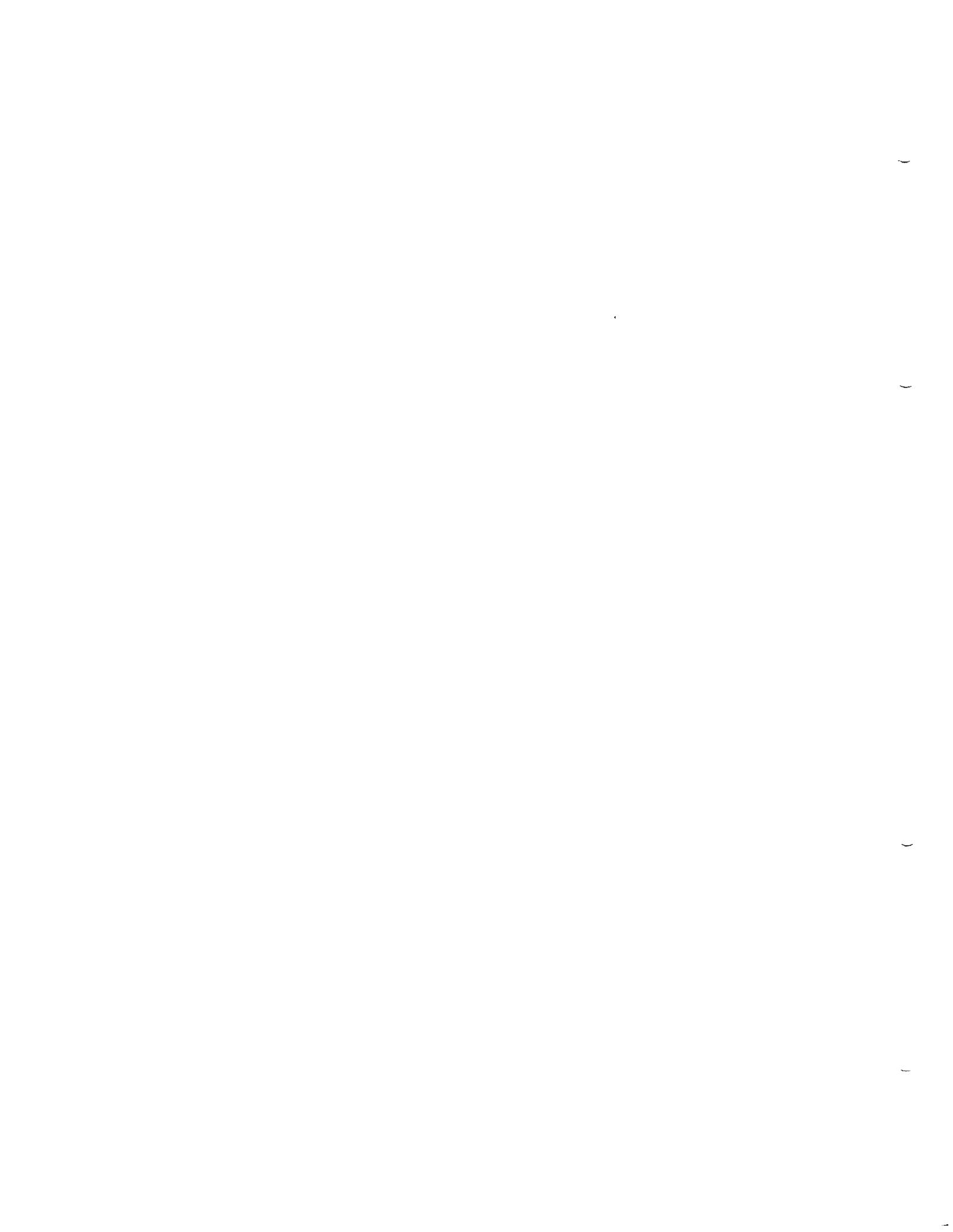
Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20	2	Frame Screw					GAS-152	1	Oil Thrower				
(GAS-2190A)	1	Frame & Field Assembly					GAS-2212	1	ARMATURE ASSEMBLY				
GAS-29	2	Pole Piece					GAS-53	1	Snap Ring				
GAS-44	1	Field Connection Ins.					IA-158	1	Snap Ring				
GAS-45	4	Field Coil Holder					GDY-28	1	Washer				
GAS-121	1	Insulating Bushing					GR-32A	1	Felt Washer Retainer				
GAS-213	1	Lead Assembly					X-407	1	3/32x3/4 Cotter Pin				
X-1595	1	Terminal					X-1460	1	#212 Woodruff Key				
GAS-2005J	1	FIELD COIL ASSY.- Comp.					X-1581	1	7/16-20 Castellated Nut				
GAS-1007C	1	Field Coil Assy.-Left					<u>Drive End Head Assembly & Parts Used With</u>						
X-1595	1	Terminal					GAS-1211	1	Drive End Head Assembly				
GAS-1008E	1	Field Coil Assy.-Right					GAS-155	1	Bearing Retainer				
MN-21	2	Dowel Pin					GAS-156	1	Gasket				
MZ-38	2	Pole Piece Screw					GAS-211	1	Drive End Head				
X-755	2	Terminal					GG-164	1	Felt Washer				
X-544	2	#10 Lock Washer					X-196	3	#10 Lock Washer				
<u>Comm. End Plate Assembly & Parts Used With</u>						8X-311	3	#10-32x3/8 Rd. Hd. Sc.					
GAS-69	1	Comm. End Cap Cover					X-1470	1	BALL BEARING- S.A.E. #202				
GAS-70	1	End Cap Cover Gasket					<u>Miscellaneous Parts</u>						
GAS-71	1	Bearing Retaining Washer					GAS-168	2	T. C. Regulator Spacer				
GAS-77	1	Felt Washer					GAS-1024	1	Head Band Assembly				
GAS-78	1	Felt Washer Retainer					TC-4305A	1	TWO CHARGE REGULATOR				
(GAS-2210)	1	Comm. End Plate Assembly					X-196	4	#10 Lock Washer				
GAS-51	2	3rd Brush Plate Retaining Spring					8X-311	4	#10-32x3/8 Rd. Hd. Screw				
GAS-210	1	Comm. End Plate					X-714	1	#10-32x1 1/2 Rd. Hd. Screw				
GAS-2021R	1	Brush Holder Plate Assy.					8X-794	1	#10-32 Square Nut				
GAL-31	1	Ground Connector Assy.							1	2	3	4	5
X-958	2	Terminal					(Issued 4-17-41)						
GAS-12†	2	Brush - Main					† SERVICE BRUSH SET GAS-2012.						
GAS-15	2	Brush Holder											
GAS-17	1	Brush Spring											
GAS-18	1	Brush Spring											
GAS-1021R	1	Brush Holder Plate Part Assembly											
8X-122	2	#8-32x1/2 Fill. Hd. Sc.											
X-1275	2	#8 Skpf. Washer											
GAS-2082R	1	3rd Brush Holder Plate Assembly											
GAS-13†	1	Brush - Third											
GAS-15	1	Brush Holder											
GAS-17	1	Brush Spring											
GAS-1082R	1	3rd Brush Holder Plate Part Assembly											
8X-878	1	#8-32x7/16 Fill. Hd.Sc.											
X-1275	1	#8 Skpf. Washer											
8X-55	3	#8-32x3/8 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
X-489	1	1/4 Oiler - Press in Type											
IA-175	1	Flat Steel Washer											
8X-61	1	#10-32x7/16 Flat Hd. Screw											
X-63	3	#8-32x3/8 Flat Hd. Screw											
X-293	1	BALL BEARING - S.A.E. #201											
		1	2	3	4	5							

UNIT	APPLICATION
GAS-4157	Aircooled Motors

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4159 GENERATOR PARTS LIST

GAS-4159

PRELIMINARY

Frame & Field Assembly & Parts Used With						Armature Assembly & Parts Used With							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20A	2						GAS-2076	1					
(GAS-2163A)	1						GAS-53	1					
GAS-29	2						IA-158	1					
GAS-44	1						8X-160	1					
GAS-45	4						X-1278	1					
GAS-86	1						X-1460	1					
X-1423	1												
GAS-121	1						Drive End Head Assembly & Parts Used With						
GAS-2005D	1						GAS-1075E	1					
GAS-1007B	1						DB-13	1					
X-1423	1						GAS-73	1					
GAS-1008C	1						GAS-74	1					
MN-21	2						GAS-75B	1					
MZ-38A	2						IGP-34	1					
X-755	2						SC-127	1					
X-544	2						8X-55	3					
							X-195	3					
Comm. End Plate Assembly & Parts Used With							X-294	1					
GAS-69A	1						X-489	1					
GAS-70	1												
GAS-71	1						Miscellaneous Parts						
GAS-77	1						GAS-1171A	1					
GAS-78	1						TC-4305A	1					
(GAS-2079H)	1						8X-118	1					
GAS-51	2						X-196	4					
							8X-321	4					
GAS-79B	1												
GAS-2021R	1												
GAL-31	1												
X-958	2												
GAS-12†	2												
GAS-15	2												
GAS-17	1												
GAS-18	1												
GAS-1021R	1												
8X-122	2												
X-1275	2												
GAS-2082RA	1												
GAS-13†	1												
GAS-15	1												
GAS-17	1												
GAS-1082RA	1												
8X-878	1												
X-1275	1												
8X-55	3												
X-195	1												
X-386	1												
IA-175	1												
8X-61	1												
8X-63	3												
X-293	1												

(Issued 4-18-41)

† SERVICE BRUSH SET GAS-2012.

UNIT	APPLICATION
GAS-4159	Indian Motorcycle

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4160A GENERATOR PARTS LIST

GAS-4160A

Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20A	2	Bolt, Thru					GAS-2219R	1	Plate Assy., 3rd Brush				
(GAS-2216)	1	Frame & Field Assy.					GAS-15	1	Holder, Brush				
GAS-40	1	Washer, Ins., Term. Stud, Inner					GAS-17	1	Spring, Brush				
GAS-41	1	Bushing, Ins., Term. Stud					GAS-1219R	1	Plate, 3rd Brush				
GAS-44	1	Insulation, Field Connection					GEM-13‡	1	Brush, 3rd				
GAS-45	4	Holder, Field Coil					8X-878	1	Screw, Brush, Fil. hd., #8-32x7/16				
GAS-225	1	Lead Assy.					X-1013	1	Washer, Brush Screw Skpf., #8				
X-1423	1	Terminal					8X-55	3	Screw, Plate Attaching, Rd. hd., #8-32x3/8				
GAS-1005B	1	Coil Assy., Field, Comp.					X-195	5	Washer, Lock, Plate & Cover Screw, #8				
GAS-1007B	1	Coil Assy., Field, Left					8X-888	4	Screw, Cover, Fil. hd., #8-32x5/16				
X-1423	1	Terminal					<u>Armature Assembly & Parts Used With</u>						
GAS-1008F	1	Coil, Field, Right					GAS-2218	1	Armature Assy.				
GBF-36	1	Stud, Terminal, #10-32					GAR-171	1	Snap Ring, D.E.				
GBF-55	1	Washer, Insulating, Term. Stud, Outer					GBM-21	1	Nut, Armature Shaft				
GT-7	1	Bushing, Insulating					SP-383	1	Pulley, Drive				
MN-21	2	Pin, Dowel, Head Locating					X-260	1	Key, Woodruff, #5				
MZ-38	2	Screw, Pole Shoe					X-864	1	Washer, Lock, Arm. Shaft, .669				
X-755	1	Terminal					<u>Drive End Head Assembly & Parts Used With</u>						
X-1274	2	Washer, Skpf., Term. Stud, #10					GAS-1217	1	Head Assy., Drive End				
5X-1377	1	Nut, Term. Stud, Hex., #10-32					DA-39	1	Retainer, Felt Washer, Flat				
X-196	1	Washer, Lock, Term. Stud, #10					GAS-103	1	Retainer, Felt Washer, Cupped				
X-544	2	Washer, Lock, Thru Bolt, #10					GAS-104	1	Retainer, Bearing				
5X-1377	1	Nut, Term. Stud, Hex., #10-32					GAS-217	1	Head				
<u>Comm. End Head Assembly & Parts Used With</u>					<u>Miscellaneous Parts</u>								
(GAS-2215)	1	Head Assy., Comm. End					CB-4014	1	Relay Assy., Cutout				
GAR-73	1	Wick, Felt					CB-123	1	Spring, Armature				
GAR-98A	1	Cover, Felt Wick					CB-160S	1	Cover				
GAS-51	2	Spring, Retaining. 3rd Brush Plate					PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16				
GAS-220	1	Oil Guard					X-196	2	Washer, Lock, Term. Sc., #10				
GAS-221	1	Gasket, Oil Guard					8X-312	1	Screw, Bat. Term., Rd. hd., #10-32x1/4				
GAS-223	1	Gasket, C.E. Cover					GAS-87	2	Spacer, Relay Mounting				
GAS-1215	1	Head Assy., Partial, C.E.					GAS-1024A	1	Band, Cover				
GAS-224	1	Bearing, Absorbent Brz.					X-196	2	Washer, Lock, Cutout Relay Mtg., #10				
GAS-1222	1	Cover, Comm. End					8X-311	2	Screw, Mounting, Cutout Relay, Rd. hd., #10-32x3/8				
GAS-2021R	1	Plate Assy., Main Brush					X-714	1	Screw, Cover Band, Rd. hd., #10-32x1/2				
GAL-31	1	Lead Assy., Ground					8X-794	1	Nut, Cover Band, Square, #10-32				
X-958	2	Terminal							1	2	3	4	5
GAS-15	2	Holder, Brush					(Issued 3-11-44)						
GAS-17	1	Spring, Brush, Grounded					File in						
GAS-18	1	Spring, Brush, Insulated					Equipment & Parts List Binder						
GAS-1021R	1	Plate, Main Brush					"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."						
GEM-12‡	2	Brush, Main					† Brush Set, Service, GEM-2012S.						
8X-122	1	Screw, Grounded Brush, Fil. hd., #8-32x1/2					Printed in U. S. A.						
X-1013	2	Washer, Lock, Brush Screw, #8					(Issued 3-11-44)						
8X-1496	1	Screw, Ins. Brush, Bdg. hd., #8-32x7/16					File in						
		1	2	3	4	5	Equipment & Parts List Binder						

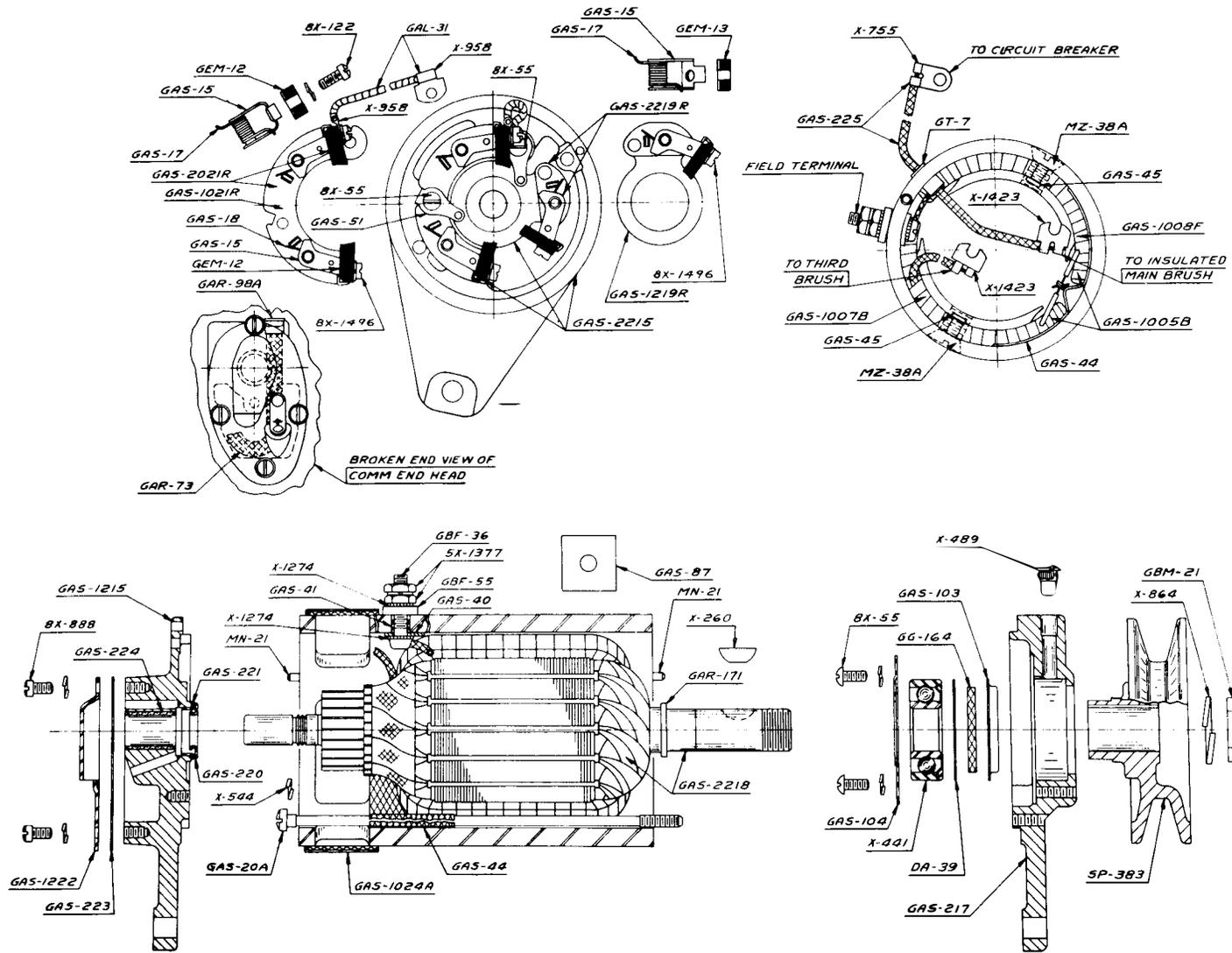
† Brush Set, Service, GEM-2012S.

Printed in U. S. A.

(Issued 3-11-44)

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4161A GENERATOR PARTS LIST

GAS-4161A

PRELIMINARY

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-20	2	Frame Screw				
(GAS-2138)	1	Frame & Field Assembly				
GAS-29	2	Pole Piece				
GAS-44	1	Field Connection Ins.				
GAS-45	4	Field Coil Holder				
GAS-86	1	C. B. Lead Assembly				
X-1423	1	Terminal				
GAS-2005A	1	FIELD COIL ASSY.- Comp.				
GAS-1007B	1	Field Coil Assy.-Left				
X-1423	1	Terminal				
GAS-1008A	1	Field Coil Assy.-Right				
X-959	1	Terminal				
GT-7	1	Insulating Tube				
MN-21	2	Dowel Pin				
MZ-38	2	Pole Piece Screw				
X-140	1	#6-32 Hex. Nut				
X-755	1	Terminal				
X-1275	1	#8 Skpf. Washer				
X-1350	1	#6-32x7/16 Flat Hd. Screw				
X-544	2	#10 Lock Washer				

Comm. End Plate Assembly & Parts Used With

GAS-69	1	Comm. End Cap Cover				
GAS-70	1	End Cap Cover Gasket				
GAS-71	1	Bearing Retaining Washer				
GAS-77	1	Felt Washer				
GAS-78	1	Felt Washer Retainer				
(GAS-2226)	1	Comm. End Plate Assembly				
GAS-51	2	3rd Brush Plate Retaining Spring				
GAS-226	1	Comm. End Plate				
GAS-2021R	1	Brush Holder Plate Assy.				
GAL-31	1	Ground Connector Assy.				
X-958	2	Terminal				
GAS-12†	2	Brush - Main				
GAS-15	2	Brush Holder				
GAS-17	1	Brush Spring				
GAS-18	1	Brush Spring				
GAS-1021R	1	Brush Holder Plate Part Assembly				
8X-122	2	#8-32x1/2 Fill. Hd. Sc.				
X-1275	2	#8 Skpf. Washer				
GAS-2082R	1	3rd Brush Holder Plate Assembly				
GAS-13†	1	Brush - Third				
GAS-15	1	Brush Holder				
GAS-17	1	Brush Spring				
GAS-1082R	1	3rd Brush Holder Plate Part Assembly				
8X-878	1	#8-32x7/16 Fill. Hd.Sc.				
X-1275	1	#8 Skpf. Washer				
8X-55	3	#8-32x3/8 Rd. Hd. Screw				
X-195	1	#8 Lock Washer				
X-489	1	1/4 Oiler - Press in Type				
IA-175	1	Flat Steel Washer				
8X-61	1	#10-32x7/16 Flat Hd. Screw				
X-63	3	#8-32x3/8 Flat Hd. Screw				
X-293	1	BALL BEARING - S.A.E. #201				
		1	2	3	4	5

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-2227	1	ARMATURE ASSEMBLY				
GAS-53	1	Snap Ring				
IA-158	1	Snap Ring				
SP-423	1	Drive Pulley				
X-160	1	7/16-20 Hex. Nut				
X-1278	1	7/16 Skpf. Washer				
X-1460	1	#212 Woodruff Key				

Drive End Head Assembly & Parts Used With

GAS-1228	1	Drive End Head Assembly				
DB-13	1	Flat Felt Guard				
GAS-73	1	Cupped Felt Guard				
GAS-228	1	Drive End Head				
GEM-74	1	Bearing Retainer				
IGP-34	1	Felt Wick				
SC-127	1	Felt Washer				
8X-55	3	#8-32x3/8 Rd. Hd. Screw				
X-195	3	#8 Lock Washer				
X-294	1	BALL BRG. - S.A.E. #202				
X-489	1	1/4 Oiler - Press in Type				

Miscellaneous Parts

CB-4014	1	CIRCUIT BREAKER ASSEMBLY				
CB-123	1	Armature Spring				
CB-160S	1	C. B. Cover				
PX-55	1	#10-32x3/16 Bdg. Hd. So.				
X-196	2	#10 Lock Washer				
8X-312	1	#10-32x1/4 Rd. Hd. Screw				
GAS-87	2	C. B. Spacer				
GAS-1024A	1	Head Band Assembly				
X-196	2	#10 Lock Washer				
8X-311	2	#10-32x3/8 Rd. Hd. Screw				
X-714	1	#10-32x1 1/2 Rd. Hd. Screw				
8X-794	1	#10-32 Square Nut				
		1	2	3	4	5

(Issued 5-16-41)

† SERVICE BRUSH SET GAS-2012.

UNIT	APPLICATION
GAS-4161A	Wisconsin Motor

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4162A GENERATOR PARTS LIST

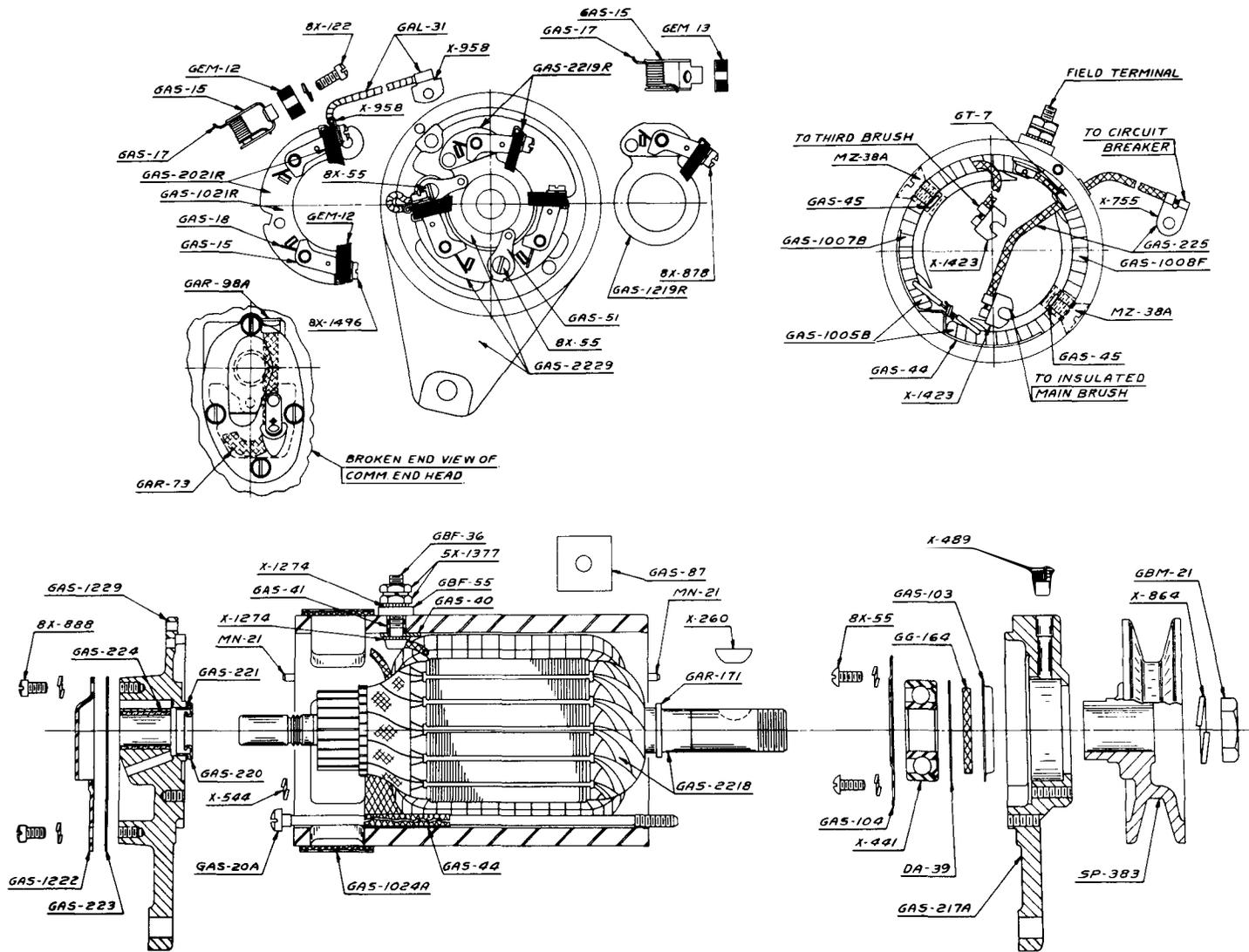
GAS-4162A

Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20A	2	Bolt, Thru					GAS-15	1	Holder, Brush				
(GAS-2230)	1	Frame & Field Assy.					GAS-17	1	Spring, Brush				
GAS-40	1	Washer, Ins., Term. Stud, Inner					GAS-1219R	1	Plate, 3rd Brush				
GAS-41	1	Bushing, Ins., Term. Stud					GEM-13‡	1	Brush, 3rd				
GAS-44	1	Insulation, Field Connection					8X-878	1	Screw, Brush, Fil. hd., #8-32x7/16				
GAS-45	4	Holder, Field Coil					X-1013	1	Washer, Brush Screw, Skpf., #8				
GAS-225	1	Lead Assy.					8X-55	3	Screw, Brush Plate, Rd. hd., #8-32x3/8				
X-1423	1	Terminal					X-195	5	Washer, Lock, Cover & Plate Screw, #8				
GAS-1005B	1	Coil Assy., Field Comp.					8X-888	4	Screw, Cover, Fill. hd., #8-32x5/16				
GAS-1007B	1	Coil Assy., Field, Left Terminal					<u>Armature Assembly & Parts Used With</u>						
X-1423	1	Coil, Field, Right					GAS-2218	1	Armature Assy.				
GAS-1008F	1	Stud, Terminal					GAR-171	1	Snap Ring, D.E.				
GBF-36	1	Washer, Insulating, Term. Stud, Outer					GBM-21	1	Nut, Armature Shaft				
GBF-55	1	Bushing, Insulating					SP-383	1	Pulley, Drive				
GT-7	1	Pin, Dowel, Head Locating					X-260	1	Key, Woodruff, #5				
MN-21	2	Screw, Pole Shoe					X-864	1	Washer, Lock, Arm. Shaft, .669				
MZ-38	2	Terminal					<u>Drive End Head Assembly & Parts Used With</u>						
X-755	1	Washer, Skpf., Term. Stud, #10					GAS-1217A	1	Head Assy., Drive End				
X-1274	2	Nut, Term. Stud, Hex., #10-32					DA-39	1	Retainer, Felt Washer, Flat				
5X-1377	1	Washer, Lock, Term. Stud, #10					GAS-103	1	Retainer, Felt Washer, Cupped				
X-196	1	Washer, Lock, Thru Bolt, #10					GAS-104	1	Retainer, Bearing				
X-544	2	Nut, Term. Stud, Hex., #10-32					GAS-217A	1	Head				
5X-1377	1						GG-164	1	Washer, Felt				
<u>Comm. End Head Assembly & Parts Used With</u>													
(GAS-2229)	1	Head Assy., Comm. End					8X-55	3	Screw, Retainer, Rd. hd., #8-32x3/8				
GAR-73	1	Wick, Felt					X-195	3	Washer, Lock, Retainer Sc., #8				
GAR-98A	1	Cover, Felt Wick					X-441	1	Bearing, Ball, Shielded, S.A.E. #203				
GAS-51	2	Spring, Retaining, 3rd Brush Plate					X-489	1	Oiler, Hinge Top, Press in, 1/4				
GAS-220	1	Oil Guard					<u>Miscellaneous Parts</u>						
GAS-221	1	Gasket, Oil Guard					CB-4014	1	Relay Assy., Cutout				
GAS-223	1	Gasket, C.E. Cover					CB-123	1	Spring, Armature				
GAS-1222	1	Cover, Comm. End					CB-160S	1	Cover				
GAS-1229	1	Head Assy., Partial, C.E.					PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16				
GAS-224	1	Bearing, Absorbent Bronze					X-196	2	Washer, Lock, Term. Sc., #10				
GAS-2021R	1	Plate Assy., Main Brush					8X-312	1	Screw, Bat. Term., Rd. hd., #10-32x1/4				
GAL-31	1	Lead Assy., Ground Terminal					GAS-87	2	Spacer, Relay Mounting				
X-958	2	Holder, Brush					GAS-1024A	1	Band, Cover				
GAS-15	2	Spring, Brush, Grounded					X-196	2	Washer, Lock, Cutout Relay Mtg., #10				
GAS-17	1	Spring, Brush, Insulated					8X-311	2	Screw, Mtg., Cutout Relay, Rd. hd., #10-32x3/8				
GAS-18	1	Plate, Main Brush					X-714	1	Screw, Cover Band, Rd. hd., #10-32x1 1/2				
GAS-1021R	1	Brush, Main					8X-794	1	Nut, Cover Band, Square, #10-32				
GEM-12‡	2	Screw Grounded Brush, Fil. hd., #8-32x1/2					1 2 3 4 5 (Issued 3-11-44)						
8X-122	1	Washer, Lock, Brush Screw, #8					‡ Brush Set, Service, GEM-2012S.						
X-1013	2	Screw, Ins. Brush, Bdg. hd., #8-32x7/16											
8X-1496	1	Plate Assy., 3rd Brush											
GAS-2219R	1	1	2	3	4	5							

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."



GAS-4162A GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4164 GENERATOR PARTS LIST

GAS-4164

Preliminary

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20	2	Frame Screw					GAS-1176	1	Oil Thrower				
(GAS-2138)	1	Frame & Field Assy.					GAS-2175	1	ARMATURE ASSEMBLY				
GAS-29	2	Pole Piece					GK-174A	1	1/2 Plain Washer				
GAS-44	1	Field Connection Ins.					X-263	1	#8 Woodruff Key				
GAS-45	4	Field Coil Holder					X-404	1	3/32x1 Cotter Pin				
GAS-86	1	C.B. Lead Assy.					X-835	1	1/2-20 Slotted Nut				
X-1423	1	Terminal					<u>Drive End Head Assembly & Parts Used With</u>						
GAS-2005A	1	FIELD COIL ASSY.-Comp.					GAS-1232	1	Drive End Head Assy.				
GAS-1007B	1	Field Coil Assy.-Left					GAS-177	1	Bearing Retainer				
X-1423	1	Terminal					GAS-232	1	Drive End Head				
GAS-1008A	1	Field Coil Assy.-Right					8X-63	3	#8-32x3/8 Flat Hd. Sc.				
X-959	1	Terminal					X-378	1	BALL BEARING				
GT-7	1	Insulating Tube					<u>Dist. Mounting Housing & Parts Used With</u>						
MN-21	2	Dowel Pin					GAG-58	1	Dist. Mtg. Housing Clamp				
MZ-38	2	Pole Piece Screw					GE-61	1	Dist. Gear - Driver				
X-140	1	#6-32 Hex. Nut					GT-121B	1	Dist. Mtg. Housing				
X-755	1	Terminal					GW-19	1	Bearing Cover				
X-1275	1	#8 Skpf. Washer					IG-86	1	Dist. Drive Rivet				
X-1350	1	#6-32x7/16 Flat Hd. Sc.					8X-53	1	#8-32x5/8 Rd. Hd. Screw				
X-544	2	#10 Lock Washer					8X-141	1	#8-32 Hex. Nut				
<u>Comm. End Plate Assembly & Parts Used With</u>						X-380	1	1/8 Grease Cup					
GAS-52	1	Grease Hole Cover					X-544	3	#10 Lock Washer				
(GAS-2174)	1	Comm. End Plate Assy.					8X-900	3	#10-32x7/8 Fill. Hd. Screw				
GAS-51	2	3rd Brush Plate Retaining Spring					<u>Miscellaneous Parts</u>						
GAS-1174	1	C.E. Plate Part Assy.					CB-4014	1	CIRCUIT BREAKER ASSY.				
GAS-49	1	ABSORBENT BRONZE BRG.					CB-123	1	Armature Spring				
GAS-2021R	1	Brush Holder Plate Assy.					CB-160S	1	C.B. Cover				
GAL-31	1	Ground Connector Assy.					PX-55	1	#10-32x3/16 Bdg. Hd. Sc.				
X-958	2	Terminal					X-196	2	#10 Lock Washer				
GAS-12†	2	Brush - Main					8X-312	1	#10-32x1/4 Rd. Hd. Screw				
GAS-15	2	Brush Holder					GAS-87	2	C.B. Spacer				
GAS-17	1	Brush Spring					GAS-1024A	1	Head Band Assembly				
GAS-18	1	Brush Spring					X-196	2	#10 Lock Washer				
GAS-1021R	1	Br. Holder Plate Part Assembly					8X-311	2	#10-32x3/8 Rd. Hd. Screw				
8X-122	2	#8-32x1/2 Fill. Hd. Screw					X-714	1	#10-32x1 1/2 Rd. Hd. Screw				
X-1275	2	#8 Skpf. Washer					8X-794	1	#10-32 Square Nut				
GAS-2126	1	3rd Brush Holder Plate Assembly							1	2	3	4	5
GAS-13†	1	Brush - Third					(Issued 10-31-41)						
GAS-15	1	Brush Holder											
GAS-17	1	Brush Spring											
GAS-1126	1	3rd Br. Holder Plate Part Assy.											
8X-878	1	#8-32x7/16 Fill. Hd. Screw											
X-1275	1	#8 Skpf. Washer											
8X-55	3	#8-32x3/8 Rd. Hd. Screw											
X-195	1	#8 Lock Washer											
		1	2	3	4	5							

† Service BRUSH SET GAS-2012.

UNIT	APPLICATION
GAS-4164	Wisconsin Motor

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4165.B GENERATOR PARTS LIST

GAS-4165.B

Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)											
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part							
		1	2	3	4	5			1	2	3	4	5			
GAS-20A	2	Bolt, Thru					X-63	3	Screw, Cover Holding, Flat hd., #8-32x3/8							
(GAS-2234)	1	Frame & Field Assy.					X-293	1	Bearing, Ball, S.A.E. #201							
GAS-44	1	Insulation, Field Connection					Armature Assembly & Parts Used With									
GAS-45	4	Holder, Field Coil					GAS-2076	1	Armature Assy.							
GAS-86	1	Lead Assy.					GAS-53	1	Snap Ring, D.E.							
X-1423	1	Terminal					IA-158	1	Snap Ring, C.E.							
GAS-121	1	Bushing, Insulating					*	1	Pulley, Drive							
GAS-2005D	1	Coil Assy., Field, Comp.					X-160	1	Nut, Armature Shaft, Hex., 7/16-20							
GAS-1007B	1	Coil Assy., Field, Left					X-1460	1	Key, Woodruff, #212							
X-1423	1	Terminal					X-1624	1	Washer, Skpf., Armature Shaft, 7/16							
GAS-1008C	1	Coil, Field, Right					Drive End Head Assembly & Parts Used With									
MN-21	2	Pin, Dowel, Head Locating					GAS-1075E	1	Head Assy., Drive End							
MZ-38	2	Screw, Pole Shoe					DB-13	1	Retainer, Felt Washer, Flat							
X-755	2	Terminal					GAS-73	1	Retainer, Felt Washer, Cupped							
X-544	2	Washer, Lock, Thru Bolt, #10					GAS-74	1	Retainer, Bearing							
Comm. End Head Assembly & Parts Used With										GAS-75B	1	Head				
GAS-69A	1	Cover, Comm. End					IGP-34	1	Wick, Felt							
GAS-70	1	Gasket, Cover, Comm. End					SC-127	1	Washer, Felt							
GAS-71	1	Washer, Bearing Retaining					8X-55	3	Screw, Retainer, Rd. hd.,							
GAS-77	1	Washer, Felt					X-195	3	Washer, Lock, Retainer Sc., #8							
GAS-78	1	Retainer, Felt Washer					X-294	1	Bearing, Ball, S.A.E. #202							
(GAS-2079E)	1	Head Assy., Comm. End					X-489	1	Oiler, Hinge Top, Press in, 1/4							
GAS-51	2	Spring, Retaining, 3rd Brush Plate					Miscellaneous Parts									
GAS-79	1	Head					GAS-1235	1	Band, Cover							
GAS-2021R	1	Plate Assy., Main Brush					TC-4305E	1	Regulator							
GAL-31	1	Lead Assy., Ground					8X-118	1	Screw, Head Band, Fil. hd., #10-32x3/4							
X-958	2	Terminal					X-196	4	Washer, Lock, Regulator Mtg., #10							
GAS-15	2	Holder, Brush					8X-309	1	Screw, Mtg., Regulator, Rd. hd., #10-32x1/2							
GAS-17	1	Spring, Brush, Grounded					8X-321	3	Screw, Mtg., Regulator, Rd. hd., #10-32x5/16							
GAS-18	1	Spring, Brush, Insulated							1	2	3	4	5			
GAS-1021R	1	Plate, Main Brush					(Issued 3-11-44)									
GEM-12†	2	Brush, Main					Assembly No.		Pulley, Drive							
8X-122	1	Screw, Grounded Brush, Fil. hd., #8-32x1/2					GAS-4165		None							
X-1013	2	Washer, Lock, Brush Screw, #8					GAS-4165B		SP-491							
8X-1496	1	Screw, Ins. Brush, Bdg. hd., #8-32x7/16														
GAS-2082R	1	Plate Assy., 3rd Brush														
GAS-15	1	Holder, Brush														
GAS-17	1	Spring, Brush														
GAS-1082R	1	Plate, 3rd Brush														
GEM-13†	1	Brush														
X-1013	1	Washer, Lock, Brush Screw, #8														
8X-1496	1	Screw, Brush, Bdg. hd., #8-32x7/16														
8X-55	3	Screw, Plate Attaching, Rd. hd., #8-32x3/8														
X-195	1	Washer, Lock, Plate Sc., #8														
X-386	1	Oiler, Ball, Press in, 1/4														
IA-175	1	Washer, Plain, Felt Retaining														
8X-61	1	Screw, Bearing Retaining, Flat hd., #10-32x7/16														
		1	2	3	4	5										

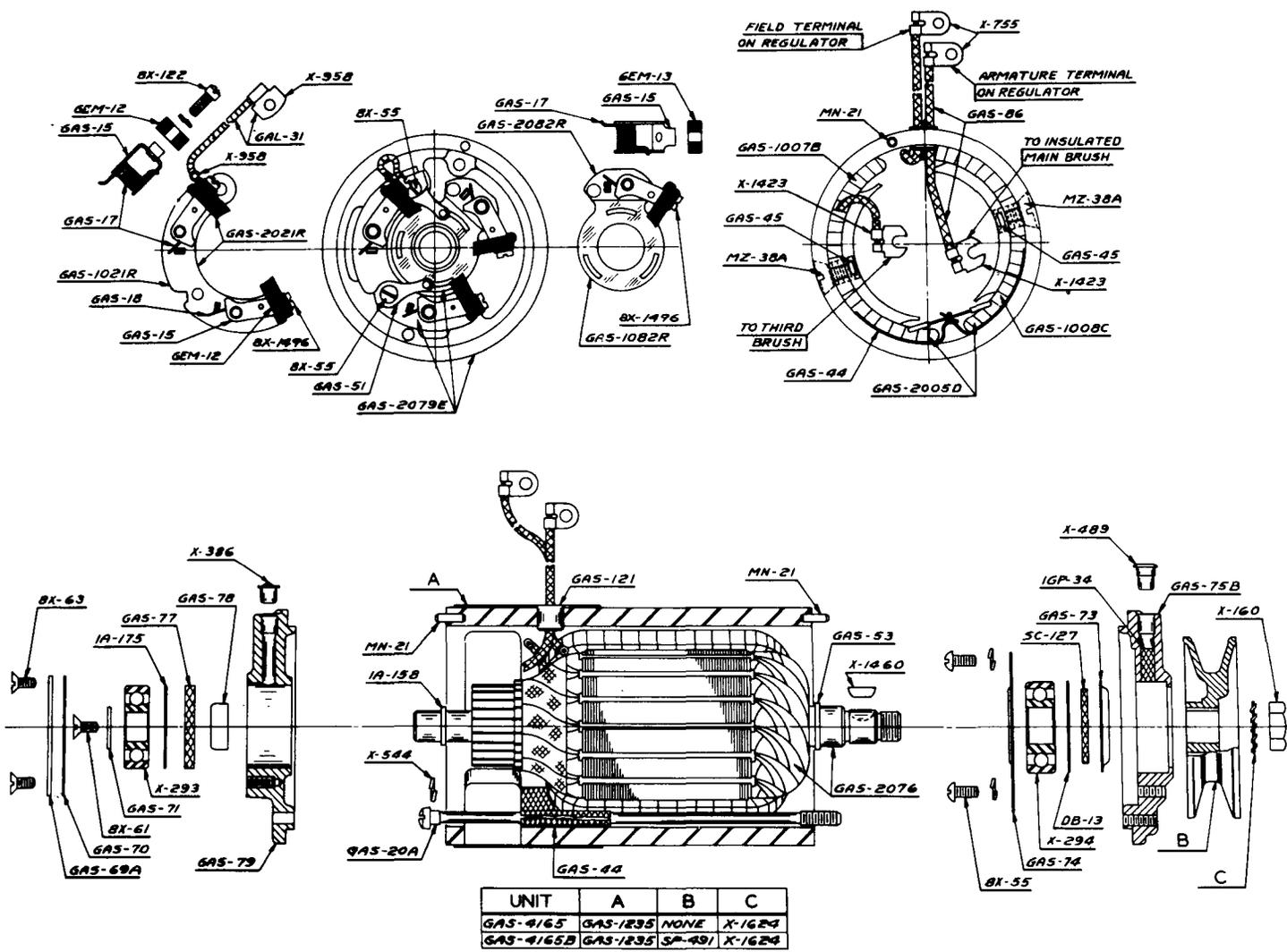
Printed in U. S. A.

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

File in
Equipment & Parts List Binder

† Brush Set, Service, GEM-2012S.

* See table following parts list for part number applying to assembly wanted.



UNIT	A	B	C
GAS-4165	GAS-1235	NONE	X-1624
GAS-4165B	GAS-1235	SP-491	X-1624

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4166 GENERATOR PARTS LIST

GAS-4166

PRELIMINARY

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-20A	2					Frame Screw
(GAS-3192)	1					Frame & Field Assy.
GAS-29	2					Pole Piece
GAS-40	1					Ins. Washer - Special
GAS-41	1					Insulating Bushing
GAS-44	1					Field Connection Ins.
GAS-45	4					Field Coil Holder
GAS-47	1					Terminal Lead Assy.
GBF-36	1					Terminal Post
X-1423	1					Terminal
GAS-2005	1					FIELD COIL ASSY.-Comp.
GAS-1007A	1					Field Coil Assy.-Left
X-1424	1					Terminal
GAS-1008A	1					Field Coil Assy.-Right
X-959	1					Terminal
GBF-55	1					Insulating Washer
MN-21	2					Dowel Pin
MZ-38A	2					Pole Piece Screw
X-140	1					#6-32 Hex. Nut
X-1274	2					3/16 Skpf. Washer
X-1275	1					#8 Skpf. Washer
8X-1350	1					#6-32x7/16 Flat Hd. Sc.
8X-1377	1					#10-32 Hex. Nut
X-196	1					#10 Lock Washer
X-544	2					#10 Lock Washer
8X-1377	1					#10-32 Hex. Nut

Comm. End Plate Assembly & Parts Used With

GAS-69A	1					Comm. End Cap Cover
GAS-70	1					End Cap Cover Gasket
GAS-71	1					Bearing Retaining Washer
GAS-77	1					Felt Washer
GAS-78	1					Felt Washer Retainer
(GAS-3191)	1					Comm. End Plate Assy.
GAS-51	2					3rd Br. Plate Retaining Spring
GAS-191	1					Comm. End Plate
GAS-2021L	1					Brush Holder Plate Assy.
GAL-31	1					Ground Connector Assy.
X-958	2					Terminal
GAS-12†	2					Brush - Main
GAS-15	2					Brush Holder
GAS-17	1					Brush Spring
GAS-18	1					Brush Spring
GAS-1021L	1					Brush Holder Plate Part Assembly
8X-122	2					#8-32x1/2 Fill. Hd. Screw
X-1275	2					#8 Skpf. Washer
GAS-2072LA	1					3rd Brush Holder Plate Assembly
GAS-13†	1					Brush - Third
GAS-15	1					Brush Holder
GAS-18	1					Brush Spring
GAS-1072LA	1					3rd Brush Holder Plate Part Assy.
8X-878	1					#8-32x7/16 Fill. Hd. Screw
X-1275	1					#8 Skpf. Washer
8X-55	3					#8-32x3/8 Rd. Hd. Sc.
X-195	1					#8 Lock Washer
X-489	1					1/4 Oiler-Press in Type

1 2 3 4 5

Comm. End Plate Assembly (Continued)

Part No.	No. Used	Name of Part				
		1	2	3	4	5
IA-175	1					Flat Steel Washer
8X-61	1					#10-32x7/16 Flat Hd. Sc.
8X-63	3					#8-32x3/8 Flat Hd. Screw
X-293	1					BALL BEARING - S.A.E. #201

Armature Assembly & Parts Used With

GAS-3237	1					ARMATURE ASSEMBLY
GAS-53	1					Snap Ring
IA-158	1					Snap Ring
8X-159	1					3/8-24 Hex. Nut
X-1277	1					3/8 Skpf. Washer
X-1460	1					#212 Woodruff Key

Drive End Head Assembly & Parts Used With

GAS-1193	1					Drive End Head Assy.
DB-13	1					Flat Felt Guard
GAS-73	1					Cupped Felt Guard
GAS-74	1					Bearing Retainer
GAS-193	1					Drive End Head
IGP-34	1					Felt Wick
SC-127	1					Felt Washer
8X-55	3					#8-32x3/8 Rd. Hd. Sc.
X-195	3					#8 Lock Washer
X-294	1					BALL BEARING-S.A.E. #202
X-489	1					1/4 Oiler-Press in Type

Miscellaneous Parts

CB-4014	1					CIRCUIT BREAKER ASSY.
CB-123	1					Armature Spring
CB-160S	1					C.B. Cover
PX-55	1					#10-32x3/16 Bdg. Hd. Sc.
X-196	2					#10 Lock Washer
8X-312	1					#10-32x1/4 Rd. Hd. Sc.
DG-107	1					Lead Assembly
X-755	2					Terminal
GAS-87A	2					C.B. Spacer
GAS-1024E	1					Head Band Assembly
X-196	2					#10 Lock Washer
8X-311	2					#10-32x3/8 Rd. Hd. Screw
8X-714	1					#10-32x1 1/2 Rd. Hd. Sc.
8X-794	1					#10-32 Square Nut

1 2 3 4 5

(Issued 2-27-41)

† Service BRUSH SET GAS-2012.

UNIT	APPLICATION
GAS-4166	Indian Motorcycle

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4167 GENERATOR PARTS LIST

GAS-4167

Frame & Field Assembly & Parts Used With					Armature Assembly & Parts Used With								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20A	2						GAS-2218	1					
(GAS-2240)	1						GAR-171	1					
GAS-44	1						GBM-21	1					
GAS-45	4						SP-383	1					
GAS-121	1						X-260	1					
GAS-225	1						X-864	1					
X-1423	1						Drive End Head Assembly & Parts Used With						
GAS-1005A	1						GAS-1217A	1					
GAS-1007B	1						DA-39	1					
X-1423	1						GAS-103	1					
GAS-1008D	1						GAS-104	1					
MN-21	2						GAS-217A	1					
MZ-38	2						GG-164	1					
X-755	2						8X-55	3					
X-544	2						X-195	3					
Comm. End Head Assembly & Parts Used With							X-441	1					
(GAS-2229)	1						X-489	1					
GAR-73	1						Miscellaneous Parts						
GAR-98A	1						GAS-168	2					
GAS-51	2						GAS-1024A	1					
GAS-220	1						TC-4324A	1					
GAS-221	1						X-196	4					
GAS-223	1						8X-311	4					
GAS-1222	1						X-714	1					
GAS-1229	1						8X-794	1					
GAS-224	1												
GAS-2021R	1												
GAL-31	1												
X-958	2												
GAS-15	2												
GAS-17	1												
GAS-18	1												
GAS-1021R	1												
GEM-12†	2												
8X-122	1												
X-1013	2												
8X-1496	1												
GAS-2219R	1												
GAS-15	1												
GAS-17	1												
GAS-1219R	1												
GEM-13†	1												
8X-878	1												
X-1013	1												
8X-55	3												
X-195	5												
8X-888	4												

(Issued 3-13-44)

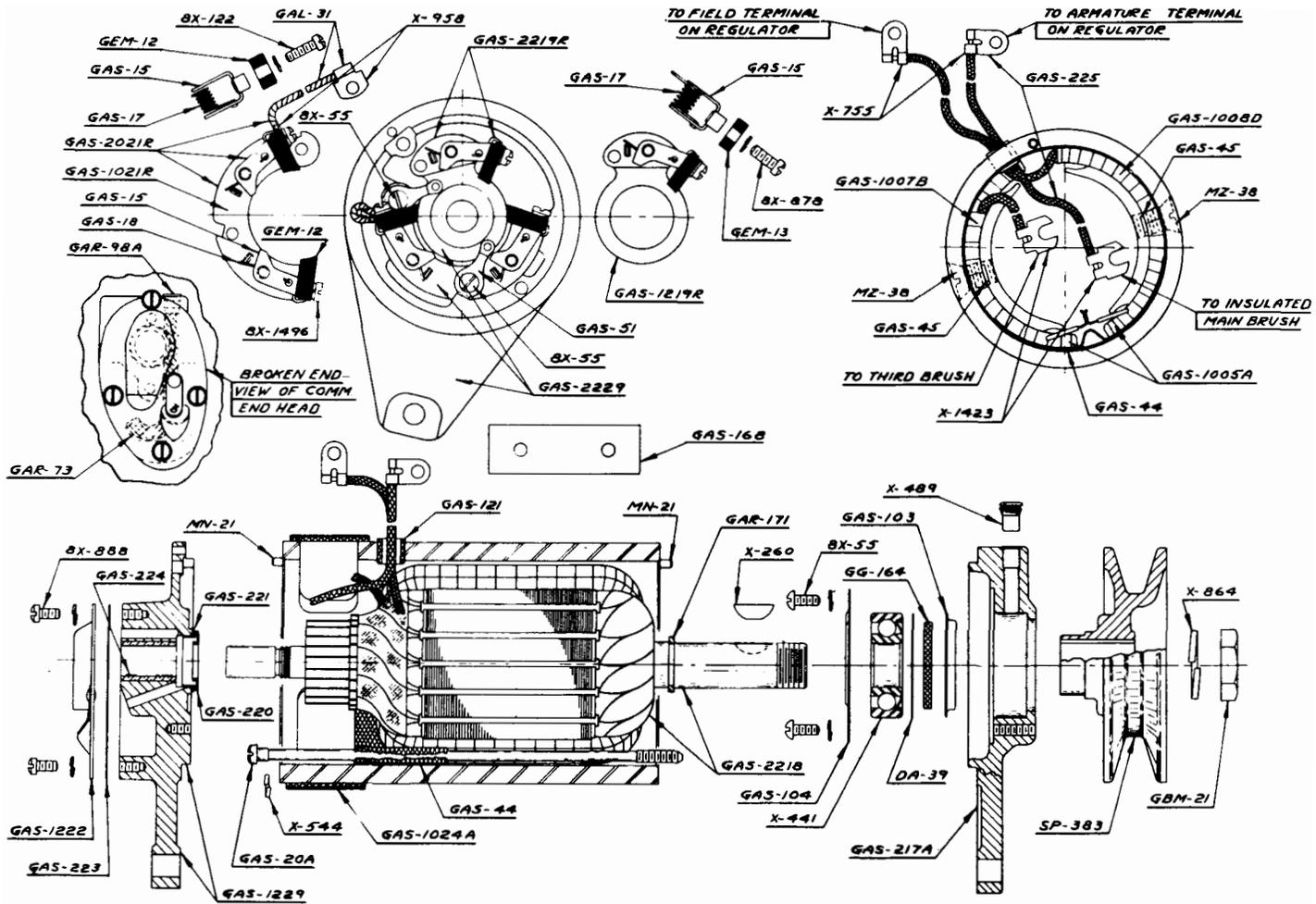
† Brush Set, Service, GEM-2012S.

Printed in U.S.A.

File in
Equipment & Parts List Binder

“NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed.”

1 2 3 4 5



GAS-4167 GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4168, A GENERATOR PARTS LIST

GAS-4168, A
(Issued 4-1-53)

Frame & Field Assembly & Parts Used With			Comm. End Head Assembly (Continued)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru	GEM-13†	1	Brush
GAS-3138	1	Frame & Field Assy.	X-195	1	Lockwasher, #8
GAS-44	1	Insulation, Field Connection	8X-878	1	Screw, Fill. Hd. #8-32x7/16
GAS-45	4	Holder, Field Coil	8X-55	3	Screw, Rd. Hd. #8-32x3/8
GAS-86	1	Lead Assy.	X-195	5	Lockwasher, #8
X-1423	1	Terminal	8X-888	4	Screw, Fill. Hd. #8-32x5/16
GAS-2005	1	COIL ASSY., FIELD, COMPLETE	<u>Armature Assembly & Parts Used With</u>		
GAS-1007A	1	Coil Assy., Field, Left	GAS-3218	1	ARMATURE ASSY.
X-1424	1	Terminal	GAR-171	1	Snap Ring
GAS-1008A	1	Coil Assy., Field, Right	GBM-21B	1	Nut, Armature Shaft
X-959	1	Terminal	GCX-23	1	Spacer, Armature Shaft
GT-7	1	Bushing, Insulating	*	1	Pulley, Drive
MN-21	2	Pin, Dowel	X-260	1	Key, Woodruff, #5
MZ-38A	2	Screw, Pole Shoe	12X-864	1	Lockwasher, Arm. Shaft
X-140	1	Nut, Hex. #6-32	<u>Drive End Head Assembly & Parts Used With</u>		
X-755	1	Terminal	GAS-1252	1	Head Assy., Drive End
X-1275	1	Washer, Skpf. #8	DA-39	1	Retainer, Felt Washer, Flat
X-1350	1	Screw, Flat Hd. #6-32x7/16	GAS-103	1	Retainer, Felt Washer, Cupped
X-196	2	Lockwasher, Thru Bolt, #10	GAS-104	1	Retainer, Bearing
<u>Comm. End Head Assembly & Parts Used With</u>			GAS-252	1	Head, Drive End
GAS-3251	1	Head Assy., Comm. End	CG-164	1	Washer, Felt
GAR-73	1	Wick, Felt	8X-55	3	Screw, Rd. Hd. #8-32x3/8
GAR-98A	1	Cover, Felt Wick	X-195	3	Lockwasher, #8
GAS-51	2	Spring, Retaining, 3rd. Brush Plate	X-295	1	BEARING, BALL; S. A. E. #203
GAS-220	1	Oil Guard	X-489	1	Oiler
GAS-221	1	Gasket, Oil Retaining	<u>Miscellaneous Parts</u>		
GAS-223	1	Gasket, Cover	CB-4014	1	RELAY ASSY., CUTOUT
GAS-1222	1	Cover, Comm. End	CB-123	1	Spring, Armature
GAS-1251	1	Head Assy., Partial, C. E.	CB-160S	1	Cover, Relay
GAS-224	1	BEARING, ABS. BRONZE	PX-55	1	Screw, Arm. Term., Bdg. Hd. #10-32x3/16
GAS-2021L	1	Plate Assy., Main Brush	12X-196	2	Lockwasher, Term. Screw, #10
GAL-31	1	Lead Assy., Ground	8X-312	1	Screw, Bat. Term. Rd. Hd. #10-32x1/4
X-958	2	Terminal	GAS-87	2	Spacer, Relay Mounting
GAS-15	2	Holder, Brush	GAS-1024F	1	Band, Cover
GAS-17	1	Spring, Brush, Insulated	12X-196	2	Lockwasher, Relay Mtg., #10
GAS-18	1	Spring, Brush, Grounded	8X-311	2	Screw, Mounting, Relay, Rd. Hd. #10-32x3/8
GAS-1021L	1	Plate	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
GEM-12†	2	Brush, Main	8X-794	1	Nut, Cover Band, Square #10-32
8X-122	2	Screw, Brush, Fill. Hd. #8-32x1/2	(Continued on Reverse Side)		
X-195	2	Lockwasher, Brush Screw, #8			
GAS-2219L	1	Plate Assy., 3rd. Brush			
GAS-15	1	Holder, Brush			
GAS-18	1	Spring, Brush			
GAS-1219L	1	Plate, 3rd. Brush			

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4168, A GENERATOR PARTS (Continued)

* See table following parts list for part number applying to assembly wanted.

† BRUSH SET, SERVICE, GEM-2012S.

Assembly No.	Pulley
GAS-4168	None
GAS-4168A	PU-82

UNIT	APPLICATION
GAS-4168, A	Chris Craft

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4169A GENERATOR PARTS LIST

GAS-4169A

Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)									
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part					
		1	2	3	4	5			1	2	3	4	5	
GAS-20A	2	Bolt, Thru					GAS-15	1	Holder, Brush					
(GAS-2259)	1	Frame & Field Assy.					GAS-17	1	Spring, Brush					
GAS-40	1	Washer, Ins., Term. Stud, Inner					GAS-1219R	1	Plate, 3rd Brush					
GAS-41	1	Bushing, Ins., Term. Stud					GEM-13†	1	Brush, 3rd					
GAS-44	1	Insulation, Field Connection					8X-878	1	Screw, Brush, Fil. hd., #8-32x7/16					
GAS-45	4	Holder, Field Coil					X-1013	1	Washer, Brush Screw, Skpf., #8					
GAS-260	1	Lead Assy.					8X-55	3	Screw, Brush Plate, Rd. hd., #8-32x3/8					
X-1423	1	Terminal					X-195	5	Washer, Lock, Cover & Plate Screw, #8					
GAS-1005B	1	Coil Assy., Field, Comp.					8X-888	4	Screw, Cover, Fil. hd., #8-32x5/16					
GAS-1007B	1	Coil Assy., Field, Left					<u>Armature Assembly & Parts Used With</u>							
X-1423	1	Terminal					GAS-2218	1	Armature Assy.					
GAS-1008F	1	Coil, Field, Right					GAR-171	1	Snap Ring, D.E.					
GBF-36	1	Stud, Terminal					GBM-21	1	Nut, Armature Shaft					
GBF-55	1	Washer, Insulating, Term. Stud, Outer					SP-383	1	Pulley, Drive					
GT-7	1	Bushing, Insulating					X-260	1	Key, Woodruff, #5					
MN-21	2	Pin, Dowel, Head Locating					X-864	1	Washer, Lock, Arm. Shaft, .669					
MZ-38	2	Screw, Pole Shoe					<u>Drive End Head Assembly & Parts Used With</u>							
X-755	1	Terminal					GAS-1217A	1	Head Assy., Drive End					
X-1274	2	Washer, Skpf., Term. Stud, #10					DA-39	1	Retainer, Felt Washer, Flat					
5X-1377	1	Nut, Term. Stud, Hex., #10-32					GAS-103	1	Retainer, Felt Washer, Cupped					
X-196	1	Washer, Lock, Term. Stud, #10					GAS-104	1	Retainer, Bearing					
X-544	2	Washer, Lock, Thru Bolt, #10					GAS-217A	1	Head					
5X-1377	1	Nut, Term. Stud, Hex., #10-32					GG-164	1	Washer, Felt					
<u>Comm. End Head Assembly & Parts Used With</u>					GAS-2218	1	Armature Assy.							
(GAS-2229)	1	Head Assy., Comm. End					GAR-171	1	Snap Ring, D.E.					
GAR-73	1	Wick, Felt					GBM-21	1	Nut, Armature Shaft					
GAR-98A	1	Cover, Felt Wick					SP-383	1	Pulley, Drive					
GAS-51	2	Spring, Retaining, 3rd Brush Plate					X-260	1	Key, Woodruff, #5					
GAS-220	1	Oil Guard					X-864	1	Washer, Lock, Arm. Shaft, .669					
GAS-221	1	Gasket, Oil Guard					<u>Drive End Head Assembly & Parts Used With</u>							
GAS-223	1	Gasket, C.E. Cover					GAS-1217A	1	Head Assy., Drive End					
GAS-1222	1	Cover, Comm. End					DA-39	1	Retainer, Felt Washer, Flat					
GAS-1229	1	Head Assy., Partial, C.E.					GAS-103	1	Retainer, Felt Washer, Cupped					
GAS-224	1	Bearing, Absorbent Bronze					GAS-104	1	Retainer, Bearing					
GAS-2021R	1	Plate Assy., Main Brush					GAS-217A	1	Head					
GAL-31	1	Lead Assy., Ground					GG-164	1	Washer, Felt					
X-958	2	Terminal					8X-55	3	Screw, Retainer, Rd. hd., #8-32x3/8					
GAS-15	2	Holder, Brush					X-195	3	Washer, Lock, Retainer Sc., #8					
GAS-17	1	Spring, Brush, Grounded					X-441	1	Bearing, Ball, Shielded, S.A.E. #203					
GAS-18	1	Spring, Brush, Insulated					X-489	1	Oiler, Hinge Top, Press in, 1/4					
GAS-1021R	1	Plate, Main Brush					<u>Miscellaneous Parts</u>							
GEM-12†	2	Brush, Main					CB-4012	1	Relay Assy., Cutout					
8X-122	1	Screw, Grounded Brush, Fil hd., #8-32x1/2					CB-123	1	Spring, Armature					
X-1013	2	Washer, Lock, Brush Screw, #8					CB-160S	1	Cover					
8X-1496	1	Screw, Ins. Brush, Bdg. hd., #8-32x7/16					PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16					
GAS-2219R	1	Plate Assy., 3rd Brush					X-196	2	Washer, Lock, Term. Sc., #10					
		1	2	3	4	5	8X-312	1	Screw, Bat. Term., Rd. hd., #10-32x1/4					
							GAS-1024A	1	Band, Cover					
							X-196	2	Washer, Lock, Cutout Relay Mtg., #10					
							8X-321	2	Screw Mtg., Cutout Relay, Rd. hd., #10-32x5/16					
							X-714	1	Screw, Cover Band, Rd. hd., #10-32x1 1/2					
							8X-794	1	Nut, Cover Band, Square, #10-32					
									1	2	3	4	5	

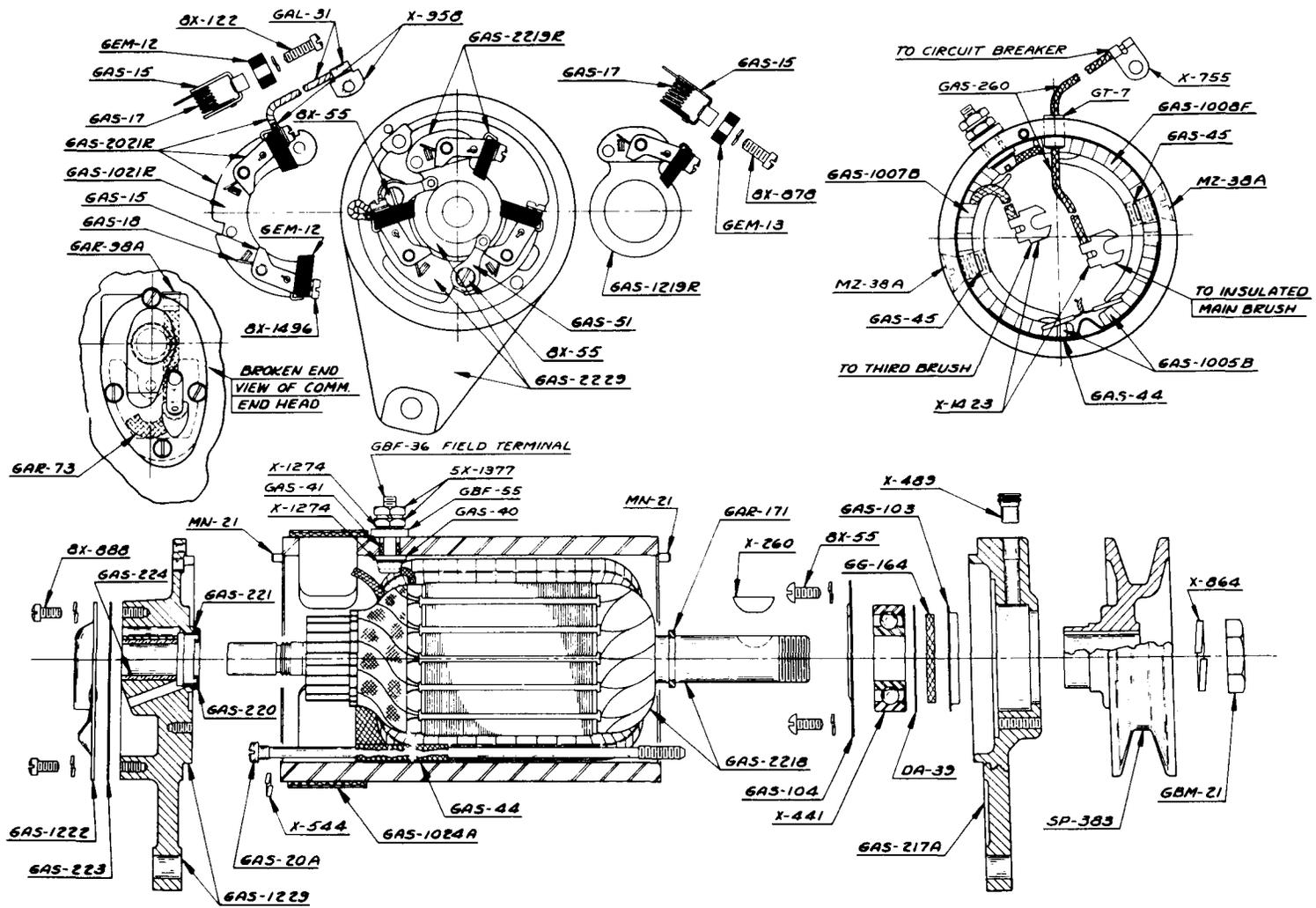
(Issued 3-13-44)

† Brush Set, Service, GEM-2012S.

Printed in U. S. A.

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

File in
Equipment & Parts List Binder



GAS-4169A GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4169A GENERATOR PARTS LIST

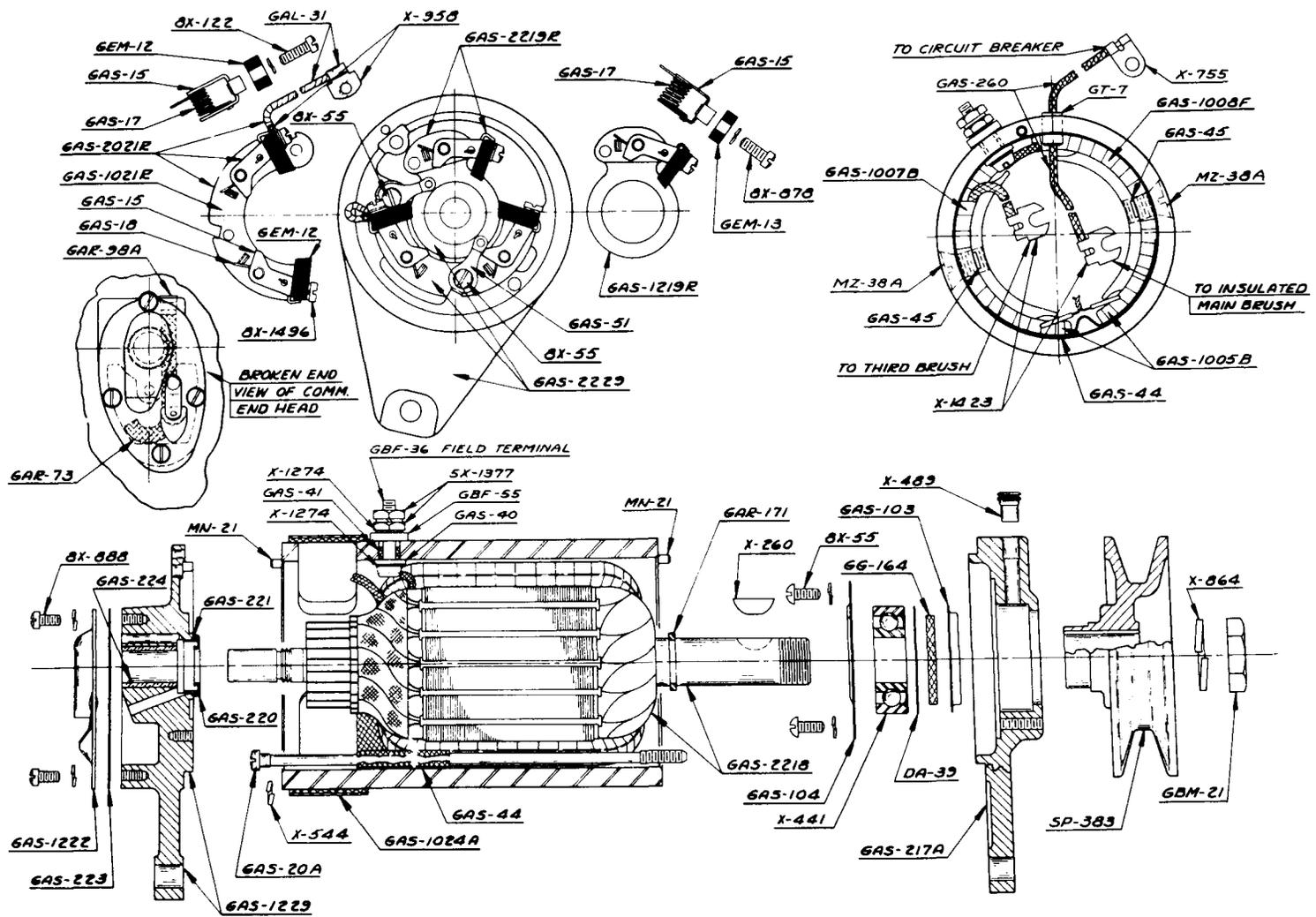
GAS-4169A

Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)				
Part No.	No. Used	Name of Part			Part No.	No. Used	Name of Part		
		1	2	3 4 5			1	2 3 4 5	
GAS-20A	2	Bolt, Thru			GAS-15	1	Holder, Brush		
(GAS-2259)	1	Frame & Field Assy.			GAS-17	1	Spring, Brush		
GAS-40	1	Washer, Ins., Term. Stud, Inner			GAS-1219R	1	Plate, 3rd Brush		
GAS-41	1	Bushing, Ins., Term. Stud			GEM-13†	1	Brush, 3rd		
GAS-44	1	Insulation, Field Connection			8X-878	1	Screw, Brush, Fil. hd., #8-32x7/16		
GAS-45	4	Holder, Field Coil			X-1013	1	Washer, Brush Screw, Skpf., #8		
GAS-260	1	Lead Assy.			8X-55	3	Screw, Brush Plate, Rd. hd., #8-32x3/8		
X-1423	1	Terminal			X-195	5	Washer, Lock, Cover & Plate Screw, #8		
GAS-1005B	1	Coil Assy., Field, Comp.			8X-888	4	Screw, Cover, Fil. hd., #8-32x5/16		
GAS-1007B	1	Coil Assy., Field, Left			<u>Armature Assembly & Parts Used With</u>				
X-1423	1	Terminal			GAS-2218	1	Armature Assy.		
GAS-1008F	1	Coil, Field, Right			GAR-171	1	Snap Ring, D.E.		
GBF-36	1	Stud, Terminal			GBM-21	1	Nut, Armature Shaft		
GBF-55	1	Washer, Insulating, Term. Stud, Outer			SP-383	1	Pulley, Drive		
GT-7	1	Bushing, Insulating			X-260	1	Key, Woodruff, #5		
MN-21	2	Pin, Dowel, Head Locating			X-864	1	Washer, Lock, Arm. Shaft, .669		
MZ-38	2	Screw, Pole Shoe			<u>Drive End Head Assembly & Parts Used With</u>				
X-755	1	Terminal			GAS-1217A	1	Head Assy., Drive End		
X-1274	2	Washer, Skpf., Term. Stud, #10			DA-39	1	Retainer, Felt Washer, Flat		
5X-1377	1	Nut, Term. Stud, Hex., #10-32			GAS-103	1	Retainer, Felt Washer, Cupped		
X-196	1	Washer, Lock, Term. Stud, #10			GAS-104	1	Retainer, Bearing		
X-544	2	Washer, Lock, Thru Bolt, #10			GAS-217A	1	Head		
5X-1377	1	Nut, Term. Stud, Hex., #10-32			GG-164	1	Washer, Felt		
<u>Comm. End Head Assembly & Parts Used With</u>					8X-55	3	Screw, Retainer, Rd. hd., #8-32x3/8		
(GAS-2229)	1	Head Assy., Comm. End			X-195	3	Washer, Lock, Retainer Sc., #8		
GAR-73	1	Wick, Felt			X-441	1	Bearing, Ball, Shielded, S.A.E. #203		
GAR-98A	1	Cover, Felt Wick			X-489	1	Oiler, Hinge Top, Press in, 1/4		
GAS-51	2	Spring, Retaining, 3rd Brush Plate			<u>Miscellaneous Parts</u>				
GAS-220	1	Oil Guard			CB-4012	1	Relay Assy., Cutout		
GAS-221	1	Gasket, Oil Guard			CB-123	1	Spring, Armature		
GAS-223	1	Gasket, C.E. Cover			CB-160S	1	Cover		
GAS-1222	1	Cover, Comm. End			PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16		
GAS-1229	1	Head Assy., Partial, C.E.			X-196	2	Washer, Lock, Term. Sc., #10		
GAS-224	1	Bearing, Absorbent Bronze			8X-312	1	Screw, Bat. Term., Rd. hd., #10-32x1/4		
GAS-2021R	1	Plate Assy.. Main Brush			GAS-1024A	1	Band, Cover		
GAL-31	1	Lead Assy., Ground			X-196	2	Washer, Lock, Cutout Relay Mtg., #10		
X-958	2	Terminal			8X-321	2	Screw Mtg., Cutout Relay, Rd. hd., #10-32x5/16		
GAS-15	2	Holder, Brush			X-714	1	Screw, Cover Band, Rd. hd., #10-32x1 1/2		
GAS-17	1	Spring, Brush, Grounded			8X-794	1	Nut, Cover Band, Square, #10-32		
GAS-18	1	Spring, Brush, Insulated			1 2 3 4 5				
GAS-1021R	1	Plate, Main Brush			(Issued 3-13-44)				
GEM-12†	2	Brush, Main			† Brush Set, Service, GEM-2012S.				
8X-122	1	Screw, Grounded Brush, Fil. hd., #8-32x1/2							
X-1013	2	Washer, Lock, Brush Screw, #8							
8X-1496	1	Screw, Ins. Brush, Bdg. hd., #8-32x7/16							
GAS-2219R	1	Plate Assy.. 3rd Brush							
		1	2	3 4 5					

Printed in U. S. A.

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

File in
Equipment & Parts List Binder



GAS-4169A GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4169A GENERATOR PARTS LIST

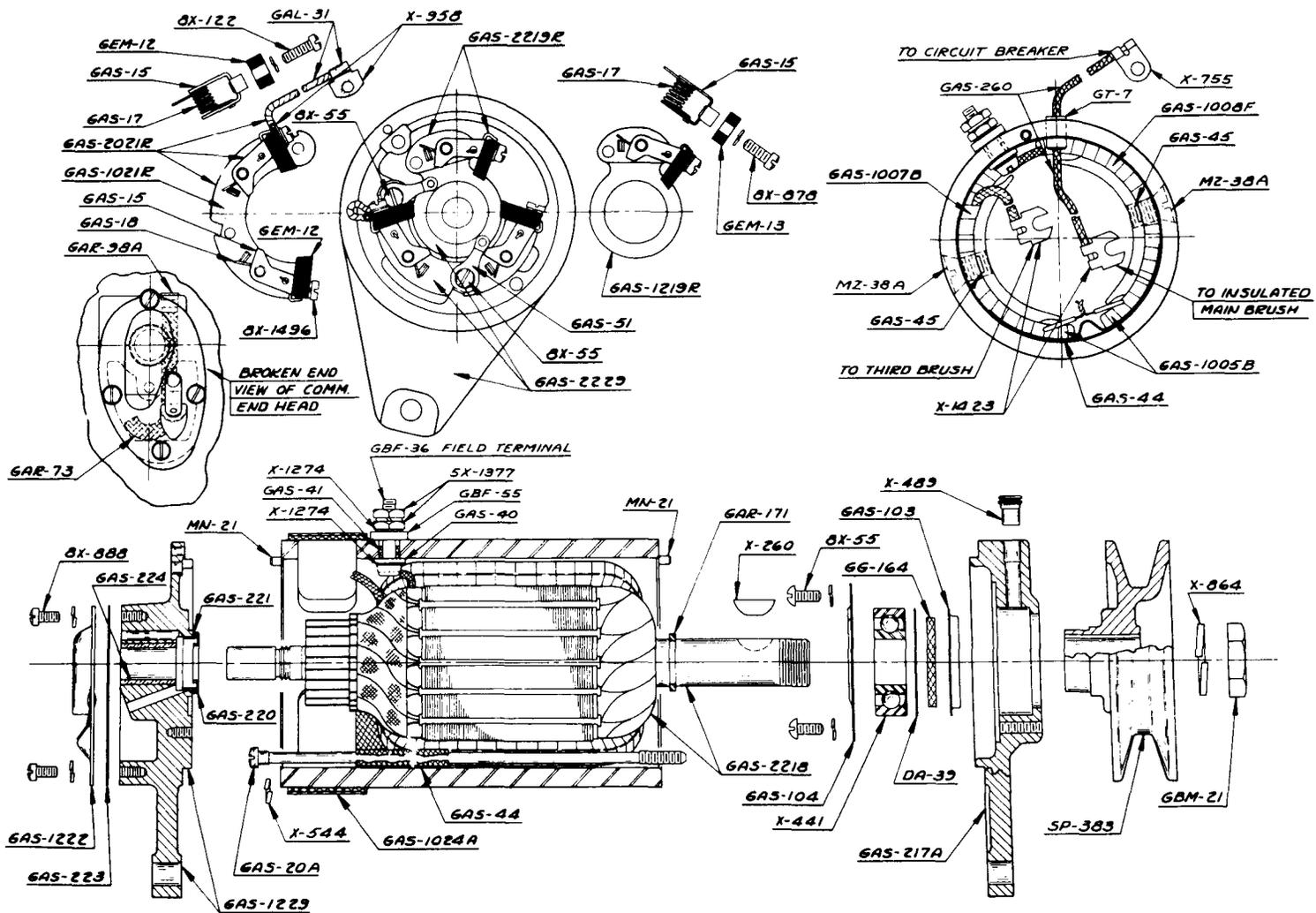
GAS-4169A

Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)				
Part No.	No. Used	Name of Part			Part No.	No. Used	Name of Part		
		1	2	3 4 5			1	2 3 4 5	
GAS-20A	2	Bolt, Thru			GAS-15	1	Holder, Brush		
(GAS-2259)	1	Frame & Field Assy.			GAS-17	1	Spring, Brush		
GAS-40	1	Washer, Ins., Term. Stud, Inner			GAS-1219R	1	Plate, 3rd Brush		
GAS-41	1	Bushing, Ins., Term. Stud			GEM-13†	1	Brush, 3rd		
GAS-44	1	Insulation, Field Connection			8X-878	1	Screw, Brush, Fil. hd., #8-32x7/16		
GAS-45	4	Holder, Field Coil			X-1013	1	Washer, Brush Screw, Skpf., #8		
GAS-260	1	Lead Assy.			8X-55	3	Screw, Brush Plate, Rd. hd., #8-32x3/8		
X-1423	1	Terminal			X-195	5	Washer, Lock, Cover & Plate Screw, #8		
GAS-1005B	1	Coil Assy., Field, Comp.			8X-888	4	Screw, Cover, Fil. hd., #8-32x5/16		
GAS-1007B	1	Coil Assy., Field, Left			<u>Armature Assembly & Parts Used With</u>				
X-1423	1	Terminal			GAS-2218	1	Armature Assy.		
GAS-1008F	1	Coil, Field, Right			GAR-171	1	Snap Ring, D.E.		
GBF-36	1	Stud, Terminal			GBM-21	1	Nut, Armature Shaft		
GBF-55	1	Washer, Insulating, Term. Stud, Outer			SP-383	1	Pulley, Drive		
GT-7	1	Bushing, Insulating			X-260	1	Key, Woodruff, #5		
MN-21	2	Pin, Dowel, Head Locating			X-864	1	Washer, Lock, Arm. Shaft, .669		
MZ-38	2	Screw, Pole Shoe			<u>Drive End Head Assembly & Parts Used With</u>				
X-755	1	Terminal			GAS-1217A	1	Head Assy., Drive End		
X-1274	2	Washer, Skpf., Term. Stud, #10			DA-39	1	Retainer, Felt Washer, Flat		
5X-1377	1	Nut, Term. Stud, Hex., #10-32			GAS-103	1	Retainer, Felt Washer, Cupped		
X-196	1	Washer, Lock, Term. Stud, #10			GAS-104	1	Retainer, Bearing		
X-544	2	Washer, Lock, Thru Bolt, #10			GAS-217A	1	Head		
5X-1377	1	Nut, Term. Stud, Hex., #10-32			GG-164	1	Washer, Felt		
<u>Comm. End Head Assembly & Parts Used With</u>					8X-55	3	Screw, Retainer, Rd. hd., #8-32x3/8		
(GAS-2229)	1	Head Assy., Comm. End			X-195	3	Washer, Lock, Retainer Sc., #8		
GAR-73	1	Wick, Felt			X-441	1	Bearing, Ball, Shielded, S.A.E. #203		
GAR-98A	1	Cover, Felt Wick			X-489	1	Oiler, Hinge Top, Press in, 1/4		
GAS-51	2	Spring, Retaining, 3rd Brush Plate			<u>Miscellaneous Parts</u>				
GAS-220	1	Oil Guard			CB-4012	1	Relay Assy., Cutout		
GAS-221	1	Gasket, Oil Guard			CB-123	1	Spring, Armature		
GAS-223	1	Gasket, C.E. Cover			CB-160S	1	Cover		
GAS-1222	1	Cover, Comm. End			PX-55	1	Screw, Arm. Term., Bdg. hd., #10-32x3/16		
GAS-1229	1	Head Assy., Partial, C.E.			X-196	2	Washer, Lock, Term. Sc., #10		
GAS-224	1	Bearing, Absorbent Bronze			8X-312	1	Screw, Bat. Term., Rd. hd., #10-32x1/4		
GAS-2021R	1	Plate Assy., Main Brush			GAS-1024A	1	Band, Cover		
GAL-31	1	Lead Assy., Ground			X-196	2	Washer, Lock, Cutout Relay Mtg., #10		
X-958	2	Terminal			8X-321	2	Screw Mtg., Cutout Relay, Rd. hd., #10-32x5/16		
GAS-15	2	Holder, Brush			X-714	1	Screw, Cover Band, Rd. hd., #10-32x1 1/2		
GAS-17	1	Spring, Brush, Grounded			8X-794	1	Nut, Cover Band, Square, #10-32		
GAS-18	1	Spring, Brush, Insulated			1 2 3 4 5 (Issued 3-13-44)				
GEM-1021R	1	Plate, Main Brush			† Brush Set, Service, GEM-2012S.				
GEM-12†	2	Brush, Main							
8X-122	1	Screw, Grounded Brush, Fil. hd., #8-32x1/2							
X-1013	2	Washer, Lock, Brush Screw, #8							
8X-1496	1	Screw, Ins. Brush, Bdg. hd., #8-32x7/16							
GAS-2219R	1	Plate Assy., 3rd Brush							
		1	2	3 4 5					

Printed in U. S. A.

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

File in
Equipment & Parts List Binder



GAS-4169A GENERATOR ILLUSTRATION

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4172-1 GENERATOR PARTS LIST

GAS-4172-1

Frame & Field Assembly & Parts Used With			Comm. End Head Assembly (Cont'd.)		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru	GAS-2072LA	1	Plate Assy., 3rd. Brush
(GAS-3192A)	1	Frame & Field Assy.	GAS-15	1	Holder, Brush
GAS-40	1	Washer, Ins., Term. Stud, Inner	GAS-18	1	Spring, Brush
GAS-41	1	Bushing, Ins., Term. Stud	GAS-1072LA	1	Plate, 3rd Brush
GAS-44	1	Insulation, Field Connection	GEM-13†	1	Brush
GAS-45	4	Holder, Field Coil	X-195	1	Lockwasher, Holder Sc., #8
GAS-47	1	Lead Assembly	8X-878	1	Screw, Br. Holder, Fill. Hd. #8-32x7/16
GBF-36	1	Stud, Term., #10-32	8X-55	3	Screw, Br. Plate, Rd. Hd. #8-32x3/8
X-1423	1	Terminal	X-195	1	Lockwasher, Plate Sc., #8
GAS-2005	1	COIL ASSY., FIELD, COMPLETE	X-489	1	Oiler
GAS-1007A	1	Coil Assy., Field, Left	IA-175	1	Washer, Plain, Felt Retaining
X-1424	1	Terminal	8X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16
GAS-1008A	1	Coil Assy., Field, Right	X-63	3	Screw, Cover, Flat Hd. #8-32x3/8
X-959	1	Terminal	X-293	1	BEARING, BALL, S.A.E.#201
GBF-55	1	Washer, Ins., Term. Stud, Outer	Armature Assembly & Parts Used With		
MN-21	2	Pin, Dowel	GAS-3273S	1	ARMATURE ASSY.
MZ-38A	2	Screw, Pole Shoe	GAS-53	1	Snap Ring, D.E.
X-140	1	Nut, Grd. Sc., Hex. #6-32	GDE-45	1	Nut, Arm. Shaft
X-1274	2	Washer, Term. Stud, Skpf. #10	IA-158	1	Snap Ring, C.E.
X-1275	1	Washer, Grd. Sc., Skpf. #8	X-1277	1	Washer, Shaft, Skpf. D.E.
8X-1350	1	Screw, Field Grd., Flat Hd. #6-32x7/16	X-1460A	1	Key, Woodruff, #212
5X-1377	1	Nut, Term. Stud, Hex. #10-32	8X-1645	1	Nut, Arm. Shaft, D.E.
X-196	3	Lockwasher, Term., Stud & Thru Bolt #10	Drive End Head Assembly & Parts Used With		
5X-1377	1	Nut, Term. Stud, Hex. #10-32	GAS-1193	1	Head Assy., Drive End
Comm. End Head Assembly & Parts Used With			DB-13	1	Retainer, Felt Washer, Flat
GAS-69A	1	Cover, Comm. End	GAS-73	1	Retainer, Felt Washer, Cupped
GAS-70	1	Gasket, C.E. Cover	GAS-74	1	Retainer, Bearing
GAS-71	1	Washer, Brg. Retaining Sc.	GAS-193	1	Head, Drive End
GAS-77	1	Washer, Felt	IGP-34	1	Wick, Felt
GAS-78	1	Retainer, Felt Washer	SC-127	1	Washer, Felt
GAS-3191	1	Head Assy., Comm. End	8X-55	3	Screw, Brg. Retainer, Rd. Hd. #8-32x3/8
GAS-51	2	Spring, Retaining, 3rd Brush Plate	X-195	3	Lockwasher, Retainer Sc., #8
GAS-191	1	Head, Comm. End	X-294	1	BEARING, BALL, S.A.E. #202
GAS-2021L	1	Plate Assy., Main Brush	X-489	1	Oiler
GAL-31	1	Lead Assy., Ground	(Continued on Reverse Side)		
X-958	2	Terminal			
GAS-15	2	Holder, Brush			
GAS-17	1	Spring, Brush, Insulated			
GAS-18	1	Spring, Brush, Grounded			
GAS-1021L	1	Plate, Main Brush			
GEM-12†	2	Brush			
8X-122	2	Screw, Br. Holder, Fill. Hd. #8-32x1/2			
X-195	2	Lockwasher, Holder Sc., #8			

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4172-1 GENERATOR PARTS (Cont'd.)

Part No.	Miscellaneous Parts	
	No. Used	Name of Part
CB-4014	1	RELAY ASSY., CUTOUT
CB-123	1	Spring, Armature
CB-160S	1	Cover, Relay
PX-55	1	Screw, Arm. Term., Bdg. Hd. #10-32x3/16
12X-196	2	Lockwasher, Term. Sc., #10
8X-312	1	Screw, Bat. Term. Rd. Hd. #10-32x1/4
DG-107	1	Lead Assembly
X-755	2	Terminal
GAS-87	2	Spacer, Relay Mtg.
GAS-1024A	1	Band, Cover
X-196	2	Lockwasher, Mtg. Sc., #10
8X-311	2	Screw, Relay Mtg., Rd. Hd. #10-32x3/8
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover, Band, Square #10-32

† BRUSH SET, SERVICE GEM-2012S.

UNIT	APPLICATION
GAS-4172-1	Indian Motorcycle, Wyse Laboratories

(Issued 3-24-50)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4173A GENERATOR PARTS LIST

GAS-4173A

Frame & Field Assembly & Parts Used With			Comm. End Head Assy. (Cont'd.)						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
GAS-20A	2	Bolt, Thru	GAS-15	1	Holder, Brush				
(GAS-2206)	1	Frame & Field Assy.	GAS-17	1	Spring, Brush				
GAS-40	2	Washer, Ins., Term. Stud, Inner	GAS-1082R	1	Plate, 3rd. Brush				
GAS-41	2	Bushing, Ins., Term. Stud	GEM-13†	1	Brush, Third				
GAS-44	1	Insulation, Field Connection	X-195	1	Lockwasher, Brush Sc., #8				
GAS-45	4	Holder, Field Coil	8X-1496	1	Screw, Brush, Bdg. Hd. #8-32x7/16				
GAS-81	1	Lead Assembly	8X-55	3	Screw, Br. Plate, Rd. Hd. #8-32x3/8				
GBF-36	1	Stud, Terminal	X-195	1	Lockwasher, Plate Sc., #8				
X-1423	1	Terminal	X-489	1	Oiler				
GAS-2005H	1	COIL ASSY., FIELD, COMPLETE	IA-175	1	Washer, Plain, Felt Retaining				
GAS-1007B	1	Coil Assy., Field, Left	8X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16				
X-1423	1	Terminal	X-63	3	Screw, Cover, Flat Hd. #8-32x3/8				
GAS-1008G	1	Coil, Field, Right	X-293	1	BEARING, BALL, S.A.E. #201				
GBF-36	1	Stud, Terminal	<u>Armature Assembly & Parts Used With</u>						
GBF-55	2	Washer, Ins., Term. Stud, Outer	GAS-2076	1	ARMATURE ASSY.				
MN-21	2	Pin, Dowel	GAS-53	1	Snap Ring, D.E.				
MZ-38A	2	Screw, Pole Shoe	IA-158	1	Snap Ring, C.E.				
X-196	2	Lockwasher, Term. Stud, #10	SP-90	1	Pulley, Drive				
X-1274	4	Washer, Term. Stud, Skpf. #10	X-160	1	Nut, Arm. Shaft, D.E.				
8X-1377	4	Nut, Term. Stud, Hex. #10-32	X-1278	1	Washer, Shaft, D.E., Skpf. 7/16				
X-196	3	Lockwasher, Grd. Sc. & Thru Bolt, #10	X-1460A	1	Key, Woodruff, D.E., #212				
8X-321	1	Screw, Ground, Rd. Hd. #10-32x5/16	<u>Drive End Head Assembly & Parts Used With</u>						
<u>Comm. End Head Assembly & Parts Used With</u>			GAS-1075E	1	Head Assy., Drive End				
GAS-69A	1	Cover, Comm. End	DB-13	1	Retainer, Felt Washer, Flat				
GAS-70	1	Gasket, C.E. Cover	GAS-73	1	Retainer, Felt Washer, Cupped				
GAS-71	1	Washer, Bearing Retaining Sc.	GAS-74	1	Retainer, Bearing				
GAS-77	1	Washer, Felt	GAS-75B	1	Head				
GAS-78	1	Retainer, Felt Washer	IGP-34	1	Wick, Felt				
GAS-2079	1	Head Assy., Comm. End	SC-127	1	Washer, Felt				
GAS-51	2	Spring, Retaining, 3rd. Brush Plate	8X-55	3	Screw, Retainer, Rd. Hd. #8-32x3/8				
GAS-79B	1	Head, Comm. End	X-195	3	Lockwasher, Retainer Sc., #8				
GAS-2021R	1	Plate Assy., Main Brush	X-294	1	BEARING, BALL, S.A.E. #202				
GAL-31	1	Lead Assy., Ground	X-489	1	Oiler				
X-958	2	Terminal	<u>Miscellaneous Parts</u>						
GAS-15	2	Holder, Brush	GAS-1024F	1	Band, Cover				
GAS-17	1	Spring, Brush, Grounded	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
GAS-18	1	Spring, Brush, Insulated	8X-794	1	Nut, Cover Band, Square #10-32				
GAS-1021R	1	Plate, Main Brush	† BRUSH SET, SERVICE GEM-2012S.						
GEM-12 †	2	Brush, Main	NOTE: TC-4317A TWO CHARGE REGULATOR is used with but is not a part of this generator.						
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 2px;">UNIT</td> <td style="padding: 2px;">APPLICATION</td> </tr> <tr> <td style="padding: 2px;">GAS-4173A</td> <td style="padding: 2px;">Buda</td> </tr> </table>			UNIT	APPLICATION	GAS-4173A	Buda
UNIT	APPLICATION								
GAS-4173A	Buda								
X-195	2	Lockwasher, Brush Sc., #8							
8X-1496	1	Screw, Ins. Brush, Bdg. Hd. #8-32x7/16							
GAS-2082R	1	Plate Assy., 3rd Brush							

Printed in U. S. A.

(Issued 3-27-50)

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4176 GENERATOR PARTS LIST

GAS-4176

Frame & Field Assembly & Parts Used With			Comm. End Head Assembly (Cont'd.)						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
GAS-20A	2	Bolt, Thru	8X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16				
(GAS-2276)	1	Frame & Field Assy.	X-63	3	Screw, Cover, Flat Hd. #8-32x3/8				
GAS-44	1	Insulation, Field Connection	X-293	1	BEARING, BALL, S.A.E. #201				
GAS-45	4	Holder, Field Coil	<u>Armature Assembly & Parts Used With</u>						
GAS-86	1	Lead Assembly	GAS-2076	1	ARMATURE ASSY.				
X-1423	1	Terminal	GAS-53	1	Snap Ring, D.E.				
GAS-121	1	Bushing, Insulating	IA-158	1	Snap Ring, C.E.				
GAS-2005D	1	COIL ASSY., FIELD, COMPLETE	X-160	1	Nut, Shaft, D.E., Hex. 7/16-20				
GAS-1007B	1	Coil Assy., Field, Left	X-1278	1	Washer, Shaft, D.E., Skpf. 7/16				
X-1423	1	Terminal	X-1460A	1	Key, Woodruff, #212				
GAS-1008C	1	Coil, Field, Right	<u>Drive End Head Assembly & Parts Used With</u>						
MN-21	2	Pin, Dowel	GAS-1075C	1	Head Assy., Drive End				
MZ-38A	2	Screw, Pole Shoe	DB-13	1	Retainer, Felt Washer, Flat				
X-755	2	Terminal	GAS-73	1	Retainer, Felt Washer, Cupped				
12X-196	2	Lockwasher, Thru Bolt, #10	GAS-74	1	Retainer, Bearing				
<u>Comm. End Head Assembly & Parts Used With</u>			GAS-75A	1	Head, Drive End				
GAS-69A	1	Cover, Comm. End	IGP-34	1	Wick, Felt				
GAS-70	1	Gasket, C.E. Cover	SC-127	1	Washer, Felt				
GAS-71	1	Washer, Bearing Retaining Sc.	8X-55	3	Screw, Retainer, Rd. Hd. #8-32x3/8				
GAS-77	1	Washer, Felt	X-195	3	Lockwasher, Retainer Sc., #8				
GAS-78	1	Retainer, Felt Washer	X-489	1	Oiler				
GAS-2079	1	Head Assy., Comm. End	X-1470	1	BEARING, BALL, SHIELDED S.A.E. #202				
GAS-51	2	Spring, Retaining, 3rd. Brush Plate	<u>Miscellaneous Parts</u>						
GAS-79B	1	Head, Comm. End	GAS-168	2	Spacer, Reg. Mtg.				
GAS-2021R	1	Plate Assy., Main Brush	GAS-1024F	1	Band, Cover				
GAL-31	1	Lead Assy., Ground	TC-4302A	1	REGULATOR, TWO CHARGE				
X-958	2	Terminal	12X-196	4	Lockwasher, Reg. Mtg. Sc., #10				
GAS-15	2	Holder, Brush	8X-311	4	Screw, Regulator Mtg., Rd. Hd. #10-32x3/8				
GAS-17	1	Spring, Brush, Grounded	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
GAS-18	1	Spring, Brush, Insulated	8X-794	1	Nut, Cover Band, Square #10-32				
GAS-1021R	1	Plate, Main Brush	† BRUSH SET, SERVICE GEM-2012S.						
GEM-12 †	2	Brush, Main	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">UNIT</th> <th style="width: 50%;">APPLICATION</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">GAS-4176</td> <td style="text-align: center;">Hercules, U.S. Motors</td> </tr> </tbody> </table>			UNIT	APPLICATION	GAS-4176	Hercules, U.S. Motors
UNIT	APPLICATION								
GAS-4176	Hercules, U.S. Motors								
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2							
X-195	2	Lockwasher, Brush Sc., #8							
8X-1496	1	Screw, Ins. Brush, Bdg. Hd. #8-32x7/16							
GAS-2082R	1	Plate Assy., 3rd. Brush							
GAS-15	1	Holder, Brush							
GAS-17	1	Spring, Brush							
GAS-1082R	1	Plate, 3rd. Brush							
GEM-13 †	1	Brush, Third							
X-195	1	Lockwasher, Brush Sc., #8							
8X-1496	1	Screw, Brush, Bdg. Hd. #8-32x7/16							
8X-55	3	Screw, Br. Plate, Rd. Hd. #8-32x3/8							
X-195	1	Lockwasher, Plate Sc., #8							
X-489	1	Oiler							
IA-175	1	Washer, Plain, Felt Retaining							

(Issued 3-28-50)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4177,A GENERATOR PARTS LIST

GAS-4177,A

Frame & Field Assembly & Parts Used With			Comm. End Head Assembly (Continued)						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
GAS-20A	2	Bolt, Thru	X-195	1	Lockwasher, Plate Sc., #8				
(GAS-2167)	1	Frame & Field Assy.	X-489	1	Oiler				
GAS-44	1	Insulation, Field Connection	IA-175	1	Washer, Plain, Felt Retaining				
GAS-45	4	Holder, Field Coil	8X-61	1	Screw, Bearing Retaining, Flat Hd. #10-32x7/16				
GAS-86	1	Lead Assembly	X-63	3	Screw, C.E. Cover, Flat Hd. #8-32x3/8				
X-1423	1	Terminal	X-293	1	BEARING, BALL, S.A.E. #201				
GAS-121	1	Bushing, Insulating	<u>Armature Assembly & Parts Used With</u>						
GAS-2005D	1	COIL ASSY., FIELD, COMP.	GAS-2227	1	ARMATURE ASSY.				
GAS-1007B	1	Coil Assy., Field, Left	GAS-53	1	Snap Ring, D.E.				
X-1423	1	Terminal	IA-158	1	Snap Ring, C.E.				
GAS-1008C	1	Coil, Field, Right	*	1	Pulley, Drive				
MN-21	2	Pin, Dowel	X-160	1	Nut, Shaft, D.E., Hex. 7/16-20				
MZ-38A	2	Screw, Pole Shoe	X-1278	1	Washer, Shaft, D.E., Skpf. 5/16				
X-755	2	Terminal	X-1460A	1	Key, Woodruff, #212				
12X-196	2	Lockwasher, Thru Bolt, #10	<u>Drive End Head Assembly & Parts Used With</u>						
<u>Comm. End Head Assembly & Parts Used With</u>			GAS-1228	1	Head Assy., Drive End				
GAS-69A	1	Cover, Comm. End	DB-13	1	Retainer, Felt Washer, Flat				
GAS-70	1	Gasket, C.E. Cover	GAS-73	1	Retainer, Felt Washer, Cupped				
GAS-71	1	Washer, Bearing Retaining Sc.	GAS-228	1	Head, Drive End				
GAS-77	1	Washer, Felt	GEM-74	1	Retainer, Bearing				
GAS-78	1	Retainer, Felt Washer	IGP-34	1	Wick, Felt				
GAS-2226	1	Head Assy., Comm. End	SC-127	1	Washer, Felt				
GAS-51	2	Spring, Retaining, 3rd. Brush Plate	8X-55	3	Screw, Brg. Retainer, Rd. Hd. #8-32x3/8				
GAS-226	1	Head, Comm. End	X-195	3	Lockwasher, Retainer Sc., #8				
GAS-2021R	1	Plate Assy., Main Brush	X-294	1	BEARING, BALL, S.A.E. #202				
GAL-31	1	Lead Assy., Ground	X-489	1	Oiler				
X-958	2	Terminal	<u>Miscellaneous Parts</u>						
GAS-15	2	Holder, Brush	GAS-168	2	Spacer, Reg. Mtg.				
GAS-17	1	Spring, Brush, Grounded	GAS-24F	1	Band, Cover				
GAS-18	1	Spring, Brush, Insulated	TC-4327A	1	REGULATOR, TWO CHARGE				
GAS-1021R	1	Plate, Main Brush	12X-196	4	Lockwasher, Reg. Mtg. Sc., #10				
GEM-12 †	2	Brush, Main	8X-311	4	Screw, Reg. Mtg., Rd. Hd. #10-32x3/8				
8X-122	1	Screw, Grounded Brush, Fill. Hd., #8-32x1/2	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
X-195	2	Lockwasher, Brush Sc., #8	8X-794	1	Nut, Cover Band, Square #10-32				
8X-1496	1	Screw, Ins. Brush, Bdg. Hd. #8-32x7/16	<u>Assembly No. Pulley</u>						
GAS-2082R	1	Plate Assy., 3rd Brush	GAS-4177	None					
GAS-15	1	Holder, Brush	GAS-4177A	SP-423					
GAS-17	1	Spring, Brush	* See table following parts list for part number applying to assembly wanted.						
GAS-1082R	1	Plate, 3rd Brush	† BRUSH SET, SERVICE GEM-2012S.						
GEM-13 †	1	Brush, Third	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">UNIT</td> <td style="padding: 2px;">APPLICATION</td> </tr> <tr> <td style="padding: 2px;">GAS-4177,A</td> <td style="padding: 2px;">Wisconsin</td> </tr> </table>			UNIT	APPLICATION	GAS-4177,A	Wisconsin
UNIT	APPLICATION								
GAS-4177,A	Wisconsin								
X-195	1	Lockwasher, Brush Sc., #8							
8X-1496	1	Screw, Brush, Bdg. Hd. #8-32x7/16							
8X-55	3	Screw, Br. Plate, Rd. Hd. #8-32x3/8							

Printed in U. S. A.

(Issued 6-3-49)

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4179-3 GENERATOR PARTS LIST

GAS-4179-3

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru
(GAS-2167)	1	Frame & Field Assy.
GAS-44	1	Insulation, Field Conn.
GAS-45	4	Holder, Field Coil
GAS-86	1	Lead Assy.
X-1423	1	Terminal
GAS-121	1	Bushing, Insulating
GAS-2005D	1	COIL ASSY., FIELD, COMP.
GAS-1007B	1	Coil Assy., Field, Left
X-1423	1	Terminal
GAS-1008C	1	Coil, Field, Right
MN-21	2	Pin, Dowel
MZ-38A	2	Screw, Pole Shoe
X-755	2	Terminal
12X-544	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used With

GAS-2174A	1	Head Assy., Comm. End
GAS-51	2	Spring, Retaining, 3rd. Brush Plate
GAS-281	1	Wick, Felt
GAS-1174	1	Head Assy., Partial, C.E.
GAS-49	1	BEARING, ABSORBENT BRONZE
GAS-2021RA	1	Plate Assy., Main Brush
GAL-31	1	Lead Assy., Ground
X-958	2	Terminal
GAS-12 †	2	Brush, Main
GAS-15	2	Holder, Brush
GAS-17	1	Spring, Brush, Grounded
GAS-18	1	Spring, Brush, Insulated
GAS-1021R	1	Plate, Main Brush
8X-122	1	Screw, Grounded Brush Fill. Hd. #8-32x1/2
12X-195	2	Lockwasher, Brush Sc.#8
8X-1496	1	Screw, Insulated Brush, Bdg. Hd., #8-32x7/16
GAS-2126A	1	Plate Assy., 3rd Brush
GAS-13†	1	Brush, Third
GAS-15	1	Holder, Brush
GAS-17	1	Spring, Brush
GAS-1126	1	Plate, 3rd Brush
12X-195	1	Lockwasher, Brush Sc.#8
8X-878	1	Screw, Third Brush, Fill Hd., #8-32x7/16
IG-515A	1	Spring, Felt Wick
8X-55	3	Screw, Rd. Hd. #8-32x3/8
12X-195	1	Lockwasher, #8
X-1275	1	Washer, Felt Wick
X-1573	1	Oiler, Press in Type, 3/8

Armature Assembly & Parts Used With

GAS-1176	1	Oil Thrower
GAS-2175	1	ARMATURE
GK-174A	1	Washer, Plain, 1/2
X-263	1	Key, Woodruff, #8

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
X-404	1	Pin, Cotter, 3/32x1
X-835	1	Nut, Armature Shaft Slotted, 1/2-20

Drive End Head Assembly & Parts Used With

GAS-1232	1	Head Assy., Drive End
GAS-177	1	Retainer, Bearing
GAS-232	1	Head
8X-63	3	Screw, Flat Hd., #8-32x3/8
X-378	1	BEARING, BALL SHIELDED S.A.E. #204

Dist. Mounting Housing & Parts Used With

GAG-58	1	Dist. Mounting Housing Clamp
GE-61	1	GEAR, DIST., DRIVER
GT-121B	1	Housing, Mounting, Dist.
GW-19	1	Cover, Bearing, C.E.
SW-213	1	Rivet
8X-53	1	Screw, Clamp, Dist. Housing, Rd. Hd., #8-32x5/8
8X-141	1	Nut, Dist. Housing Clamp Sc., Hex., #8-32
X-380	1	Cup, Grease, 1/8 Pipe
12X-544	3	Lockwasher, Dist. Housing Sc. #10
8X-900	3	Screw, Attaching, Dist. Housing, Fill. Hd. #10-32x7/8

Miscellaneous Parts

GAS-168	2	Spacer, Reg. Mtg.
GAS-1024A	1	Band, Head
TC-4329C	1	TWO CHARGE REGULATOR
12X-196	4	Lockwasher, Regulator Mtg., #10
8X-311	4	Screw, Mounting Reg., Rd. Hd. #10-32x3/8
X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square, #10-32

† BRUSH SET, SERVICE GAS-2012.

UNIT	APPLICATION
GAS-4179-3	Wisconsin, Hyster Co. Lewis Sheppard

(Issued 8-24-48)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4181A GENERATOR PARTS LIST

GAS-4181A

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru
(GAS-2310)	1	Frame & Field Assy.
GAS-44	1	Insulation, Field Connection
GAS-45	4	Holder, Field Coil
GAS-86	1	Lead Assy.
X-1423	1	Terminal
GAS-121	1	Bushing, Insulating
GAS-2005D	1	COIL ASSY., FIELD, COMPLETE
GAS-1007B	1	Coil Assy., Field, Left
X-1423	1	Terminal
GAS-1008C	1	Coil, Field, Right
MN-21	2	Pin, Dowel
MZ-38A	2	Screw, Pole Shoe
X-755	2	Terminal
12X-196	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used With

GAS-69A	1	Cover, Comm. End
GAS-70	1	Gasket, C.E. Cover
GAS-71	1	Washer, Bearing Retaining Sc.
GAS-77	1	Washer, Felt
GAS-78	1	Retainer, Felt Washer
GAS-2079G	1	Head Assy., Comm. End
GAS-51	2	Spring, Retaining, 3rd Brush Plate
GAS-79B	1	Head, Comm. End
GAS-2021R	1	Plate Assy., Main Brush
GAL-31	1	Lead Assy., Ground
X-958	2	Terminal
GAS-15	2	Holder, Brush
GAS-17	1	Spring, Brush, Grounded
GAS-18	1	Spring, Brush, Insulated
GAS-1021R	1	Plate, Main Brush
GEM-12 †	2	Brush, Main
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2
X-195	2	Lockwasher, Brush Sc., #8
8X-1496	1	Screw, Ins. Brush, Bdg. Hd. #8-32x7/16
GAS-2082R	1	Plate Assy., 3rd Brush
GAS-15	1	Holder, Brush
GAS-17	1	Spring, Brush
GAS-1082R	1	Plate, 3rd Brush
GEM-13 †	1	Brush
X-195	1	Lockwasher, Brush Screw, #8
8X-1496	1	Screw, Brush, Bdg. Hd. #8-32x7/16
8X-55	3	Screw, Brush Plate, Rd. Hd. #8-32x3/8

Comm. End Head Assembly (Continued)

Part No.	No. Used	Name of Part
X-195	1	Lockwasher, Plate Sc., #8
X-386	1	Oiler
IA-175	1	Washer, Plain, Felt Retaining
8X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16
X-63	3	Screw, Cover, Flat Hd. #8-32x3/8
X-293	1	BEARING, BALL, S.A.E. #201

Armature Assembly & Parts Used With

GAS-308	1	Snap Ring, Arm Shaft, D.E.
GAS-2309	1	ARMATURE ASSEMBLY
GAS-53	1	Snap Ring, D.E.
IA-158	1	Snap Ring, C.E.
SP-718	1	Pulley, Drive

Drive End Head Assembly & Parts Used With

GAS-1075E	1	Head Assy., Drive End
DB-13	1	Retainer, Felt Washer, Flat
GAS-73	1	Retainer, Felt Washer, Cupped
GAS-74	1	Retainer, Bearing
GAS-75B	1	Head, Drive End
IGP-34	1	Wick, Felt
SC-127	1	Washer, Felt
8X-55	3	Screw, Brg. Retainer, Rd. Hd. #8-32x3/8
X-195	3	Lockwasher, Retainer Sc., #8
X-294	1	BEARING, BALL, S.A.E. #202
X-489	1	Oiler

Miscellaneous Parts

GAS-1235A	1	Band, Cover
TC-4301F	1	REGULATOR, TWO CHARGE
X-118	1	Screw, Cover Band, Fill. Hd. #10-32x3/4
12X-196	4	Lockwasher, Reg. Mtg. Sc., #10
8X-309	1	Screw, Reg. Mtg., Rd. Hd. #10-32x1/2
8X-321	3	Screw, Reg. Mtg., Rd. Hd. #10-32x5/16

† BRUSH SET, SERVICE, GEM-2012S.

UNIT	APPLICATION
GAS-4181A	Cleveland Tractor Co.

(Issued 6-24-49)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4182 GENERATOR PARTS LIST

GAS-4182

Frame & Field Assembly & Parts Used With				
Part No.	No. Used	Name of Part		
		1	2	3 4 5
GAS-20A	2	Bolt, Thru		
(GAS-2167)	1	Frame & Field Assy.		
GAS-44	1	Insulation, Field Connection		
GAS-45	4	Holder, Field Coil		
GAS-86	1	Lead Assy.		
X-1423	1	Terminal		
GAS-121	1	Bushing, Insulating		
GAS-2005D	1	Coil Assy., Field, Comp.		
GAS-1007B	1	Coil Assy., Field, Left		
X-1423	1	Terminal		
GAS-1008C	1	Coil, Field, Right		
MN-21	2	Pin, Dowel		
MZ-38	2	Screw, Pole Shoe		
X-755	2	Terminal		
12X-544	2	Lockwasher, Thru Bolt, #10		
Comm. End Head Assembly & Parts Used With				
GAS-69A	1	Cover, Comm. End		
GAS-70	1	Gasket, Cover, C.E.		
GAS-71	1	Washer, Bearing Retaining		
GAS-77	1	Washer, Felt, C.E. Inner		
GAS-78	1	Retainer, Felt Washer		
GAS-2226	1	Head Assy., Comm. End		
GAS-51	2	Spring, Retaining, 3rd.		
		Brush Plate		
GAS-226	1	Head		
GAS-2021R	1	Plate Assy., Main Brush		
GAL-31	1	Lead Assy., Ground		
X-958	2	Terminal		
GAS-15	2	Holder, Brush		
GAS-17	1	Spring, Brush, Grounded		
GAS-18	1	Spring, Brush, Insulated		
GAS-1021R	1	Plate, Main Brush		
GEM-12†	2	Brush, Main		
8X-122	1	Screw, Grounded Brush, Fil. Hd. #8-32x1/2		
X-1013	2	Lockwasher, Brush Sc., #8		
8X-1496	1	Screw, Insulated Brush, Bdg. Hd. #8-32x7/16		
GAS-2082R	1	Plate Assy., 3rd. Brush		
GAS-15	1	Holder, Brush		
GAS-17	1	Spring, Brush		
GAS-1082R	1	Plate, 3rd. Brush		
GEM-13†	1	Brush		
X-1013	1	Lockwasher, Brush Sc., #8		
8X-1496	1	Screw, Brush, Bdg. Hd., #8-32x7/16		
8X-55	3	Screw, Plate Attaching Rd. Hd. #8-32x3/8		
X-195	1	Lockwasher, Plate Attaching Screw, #8		
X-489	1	Oiler, Press in Type, 1/4		
IA-175	1	Washer, Plain		
		1	2	3 4 5

Comm. End Head Assembly (Continued)				
Part No.	No. Used	Name of Part		
		1	2	3 4 5
8X-61	1	Screw, Bearing Retaining, Flat Hd. #10-32x7/16		
X-63	3	Screw, Cover, Flat Hd. #8-32x3/8		
X-293	1	Bearing, Ball, S.A.E. #201		
Armature Assembly & Parts Used With				
GAS-2227	1	Armature Assy.		
GAS-53	1	Snap Ring, D.E.		
IA-158	1	Snap Ring, C.E.		
X-160	1	Nut, Shaft, Hex. 7/16-24		
X-1278	1	Washer, Shaft, Skpf. 7/16		
X-1460A	1	Key, Woodruff, #212		
Drive End Head Assembly & Parts Used With				
GAS-1312	1	Head Assy., Drive End		
DB-13	1	Retainer, Felt Washer, Flat		
GAS-73	1	Retainer, Felt Washer, Cupped		
GAS-312	1	Head		
GEM-74	1	Retainer, Bearing		
IGP-34	1	Wick, Felt		
SC-127	1	Washer, Felt		
8X-55	3	Screw, Brg. Retainer, Rd. Hd., #8-32x3/8		
X-195	3	Lockwasher, Retainer Sc., #8		
X-294	1	Bearing, Ball, S.A.E. #202		
X-489	1	Oiler, Hinge Top, Press in, 1/4		
Miscellaneous Parts				
GAS-24F	1	Band, Cover		
GAS-168	2	Spacer, Reg. Mtg.		
TC-4327C	1	Regulator, Two Charge		
12X-196	4	Lockwasher, Reg. Mtg., #10		
8X-311	4	Screw, Reg. Mtg., Rd. Hd. #10-32x3/8		
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2		
8X-794	1	Nut, Cover Band, Square #10-32		
		1	2	3 4 5

† Brush Set, Service GEM-2012S.

Unit	Application
GAS-4182	Wisconsin

(Issued 1-14-47)

File in
Equipment & Parts List Binder

Printed in U. S. A.

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4186 GENERATOR PARTS LIST

GAS-4186

Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)													
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part									
		1	2	3	4	5			1	2	3	4	5					
GAS-20A	2	Bolt, Thru					IA-175	1	Washer, Plain, Felt Retaining									
(GAS-2323)	1	Frame & Field Assy.					8X-61	1	Screw, Bearing Retaining, Flat Hd., #10-32x7/16									
GAS-40	2	Washer, Ins., Term. Stud, Inner					X-63	3	Screw, Cover, Flat Hd., #8-32x3/8									
GAS-41	2	Bushing, Ins., Term Stud					X-293	1	BEARING, BALL, S.A.E. #201									
GAS-44	1	Insulation, Field Conn.					Armature Assembly & Parts Used With											
GAS-45	4	Holder, Field Coil					GAS-2227	1	ARMATURE ASSEMBLY									
GAS-81	1	Lead Assembly					GAS-53	1	Snap Ring, D.E.									
GBF-36	1	Stud, Terminal					IA-158	1	Snap Ring, C.E.									
X-1423	1	Terminal					X-160	1	Nut, Shaft, D.E., Hex. 7/16-20									
GAS-2005H	1	COIL ASSY., FIELD, COMP.					X-1278	1	Washer, Shaft, Skpf., 7/16									
GAS-1007B	1	Coil Assy., Field, Left					X-1460A	1	Key, Woodruff, #212									
X-1423	1	Terminal					Drive End Head Assembly & Parts Used With											
GAS-1008G	1	Coil, Field, Right					GAS-1312	1	Head Assy., Drive End									
GBF-36	1	Stud, Field Term., #10-32					DB-13	1	Retainer, Felt Washer, Flat									
GBF-55	2	Washer, Ins., Term. Stud, Outer					GAS-73	1	Retainer, Felt Washer, Cupped									
MN-21	2	Pin, Dowel					GAS-312	1	Head									
MZ-38A	2	Screw, Pole Shoe					GEM-74	1	Retainer, Bearing									
X-1274	4	Washer, Skpf., Term. Stud, #10					IGP-34	1	Wick, Felt									
5X-1377	2	Nut, Term. Stud, Hex., #10-32					SC-127	1	Washer, Felt									
X-544	2	Lockwasher, Thru Bolt, #10					8X-55	3	Screw, Brg. Retainer, Rd. Hd., #8-21x3/8									
COMM; END HEAD ASSEMBLY & PARTS USED WITH										X-195	3	Lockwasher, Retainer Sc. #8						
GAS-69A	1	Cover, Comm. End					X-294	1	BEARING, BALL, S.A.E. #202									
GAS-70	1	Gasket, Cover, Comm. End					X-489	1	Oiler, Hinge Top, Press in, 1/4									
GAS-71	1	Washer, Bearing Retaining					Miscellaneous Parts											
GAS-77	1	Washer, Felt					GAS-1024F	1	Band, Cover									
GAS-78	1	Retainer, Felt Washer					8X-714	1	Screw, Cover Band, Rd. Hd., #10-32x1 1/2									
GAS-2226	1	Head Assy., Comm. End					8X-794	1	Nut, Cover Band, Square, #10-32									
GAS-51	2	Spring, Retaining, 3rd Brush Plate							1	2	3	4	5					
GAS-226	1	Head					† BRUSH SET, SERVICE GEM-2012S.											
GAS-2021R	1	Plate Assy., Main Brush					NOTE:- TC-4332A TWO CHARGE REGULATOR is used with but is not a part of this generator											
GAL-31	1	Lead Assy., Ground Terminal					<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">UNIT</th> <th>APPLICATION</th> </tr> </thead> <tbody> <tr> <td>GAS-4186</td> <td>Hyster Co. Wisconsin Motor Corp. Lewis Shepard Co.</td> </tr> </tbody> </table>								UNIT	APPLICATION	GAS-4186	Hyster Co. Wisconsin Motor Corp. Lewis Shepard Co.
UNIT	APPLICATION																	
GAS-4186	Hyster Co. Wisconsin Motor Corp. Lewis Shepard Co.																	
X-958	1	Terminal					(Issued 8-20-47)											
GAS-15	2	Holder, Brush					<div style="display: flex; justify-content: space-between;"> Printed in U. S. A. File in Equipment & Parts List Binder </div>											
GAS-17	1	Spring, Brush, Grounded					"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."											
GAS-18	1	Spring, Brush, Insulated																
GAS-1021R	1	Plate, Main Brush																
GEM-12†	2	Brush, Main																
8X-122	1	Screw, Grounded Brush, Fil. Hd., #8-32x1/2																
X-1013	2	Lockwasher, Br. Sc., #8																
8X-1496	1	Screw, Ins., Brush, Bdg. Hd. #8-32x7/16																
GAS-2082R	1	Plate Assy., 3rd Brush																
GAS-15	1	Holder, Brush																
GAS-17	1	Spring, Brush																
GAS-1082R	1	Plate, 3rd Brush																
GEM-13†	1	Brush																
X-1013	1	Lockwasher, Brush Screw, #8																
8X-1496	1	Screw, Brush, Bdg. Hd., #8-32x7/16																
8X-55	3	Screw, Br. Plate, Rd. Hd., #8-32x3/8																
X-195	1	Lockwasher, Br. Plate Screw, #8																
X-489	1	Oiler, Hinge Top, Press in, 1/4																

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4187 GENERATOR PARTS LIST

GAS-4187

Frame & Field Assembly & Parts Used With						Armature Assembly & Parts Used With							
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20A	2	Bolt, Thru					GAS-1176	1	Oil Thrower				
(GAS-3167)	1	Frame & Field Assy.					GAS-3178	1	ARMATURE ASSEMBLY				
GAS-44	1	Insulation, Field Connection					IA-158	1	Snap Ring				
GAS-45	4	Holder, Field Coil					GK-174	1	Washer, Armature Shaft, Plain 1/2				
GAS-86	1	Lead Assy.					X-156	1	Nut, Shaft, Hex. Castellated 1/2-20				
X-1423	1	Terminal					X-263	1	Key, Woodruff, #8				
GAS-121	1	Bushing, Insulating					X-404	1	Pin, Cotter, 3/32x1				
GAS-2005C	1	COIL ASSY., FIELD, COMP.					Drive End Head Assembly & Parts Used With						
GAS-1007A	1	Coil Assy., Field, Left					GAS-1179	1	Head Assy., Drive End				
X-1424	1	Terminal					GAS-177	1	Retainer, Bearing				
GAS-1008C	1	Coil Field, Right					GAS-179	1	Head				
MN-21	2	Pin, Dowel					8X-63	3	Screw, Bearing Retainer, Flat Hd. #8-32x3/8				
MZ-38A	2	Screw, Pole Shoe					X-378	1	BEARING, BALL, SHIELDED S.A.E. #204				
X-755	2	Terminal					Miscellaneous Parts						
12X-544	2	Lockwasher, Thru Bolt, #10					GAS-24F	1	Band, Cover				
Comm. End Head Assembly & Parts Used						GAS-168	2	Spacer, Reg. Mtg.					
GAS-69A	1	Cover, Comm. End					TC-4301F	1	REGULATOR, TWO CHARGE				
GAS-70	1	Gasket, C.E. Cover					12X-196	4	Lockwasher, Regulator Mtg. Sc., #10				
GAS-71	1	Washer, Bearing Retaining Sc.					8X-311	4	Screw, Mounting, Regulator, Rd. Hd. #10-32x3/8				
GAS-77	1	Washer, Felt					8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
GAS-78	1	Retainer, Felt Washer					8X-794	1	Nut, Cover Band, Square #10-32 1 2 3 4 5				
GAS-3068	1	Head Assy., Comm. End					* BRUSH SET, SERVICE , GEM-2012S.						
GAS-51	2	Spring, Retaining, 3rd Brush Plate											
GAS-68	1	Head											
GAS-2021L	1	Plate Assy., Main Brush											
GAL-31	1	Lead Assy., Ground											
X-958	2	Terminal											
GAS-15	2	Holder, Brush											
GAS-17	1	Spring, Brush, Insulated											
GAS-18	1	Spring, Brush, Grounded											
GAS-1021L	1	Plate											
GEM-12 *	2	Brush											
8X-122	2	Screw, Fill. Hd., #8-32x1 1/2											
X-1013	2	Lockwasher, #8											
GAS-2072L	1	Plate Assy., 3rd Brush											
GAS-15	1	Holder, Brush											
GAS-18	1	Spring, Brush											
GAS-1072L	1	Plate, Main Brush											
GEM-13 *	1	Brush											
8X-878	1	Screw, Fill. Hd. #8-32x7/16											
X-1013	1	Lockwasher, #8											
8X-55	3	Screw, Rd. Hd. #8-32x3/8											
X-195	1	Lockwasher, #8											
X-489	1	Oiler, Press in Type 1/4											
IA-175	1	Washer, Felt Retaining, Plain											
8X-61	1	Screw, Bearing Retaining, Flat Hd. #10-32x7/16											
X-63	3	Screw, C.E. Cover, Flat Hd. #8-32x3/8											
X-293	1	BEARING, BALL, S.A.E. #201 1 2 3 4 5											

Printed in U. S. A.

(Issued 4-19-48)

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

UNIT	APPLICATION
GAS-4187	Wisconsin, Motorette

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4188A GENERATOR PARTS LIST

GAS-4188A

Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)								
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part				
		1	2	3	4	5			1	2	3	4	5
GAS-20A	2	Bolt, Thru					8X-61	1	Screw, Bearing Retaining, Flat Hd. #10-32x7/16				
(GAS-2310)	1	Frame & Field Assy.					X-63	3	Screw, Cover Holding, Flat Hd. #8-32x3/8				
GAS-44	1	Insulation, Field Connection					X-293	1	Bearing, Ball, S.A.E. #201				
GAS-45	4	Holder, Field Coil					<u>Armature Assembly & Parts Used With</u>						
GAS-86	1	Lead Assy.					GAS-308	1	Snap Ring, Armature Shaft				
X-1423	1	Terminal					GAS-2326	1	Armature				
GAS-121	1	Bushing, Insulating					GAS-333	1	Snap Ring				
GAS-2005D	1	Coil Assy., Field, Comp.					IA-158	1	Snap Ring, C.E.				
GAS-1007B	1	Coil Assy., Field, Left					GG-195	1	Armature Shaft Nut 1/2x20 Hex.				
X-1423	1	Terminal					SP-718	1	Pulley, Drive				
GAS-1008C	1	Coil, Field, Right					12X-2949	1	Lockwasher, Arm. Shaft, 1/2				
MN-21	2	Pin, Dowel					<u>Drive End Head Assembly & Parts Used With</u>						
MZ-38A	2	Screw, Pole Shoe					GAS-1075J	1	Drive End Head Assy.				
X-755	2	Terminal					DB-13	1	Flat Felt Guard				
12X-544	2	Lockwasher, Thru Bolt, #10					GAS-73	1	Cupped Felt Guard				
<u>Comm. End Head Assembly & Parts Used With</u>							GAS-75	1	D.E. Head				
GAS-69A	1	Cover, Comm. End					GAS-327	1	Bearing Retainer				
GAS-70	1	Gasket, Cover, Comm. End					GAS-328	1	Felt Retainer				
GAS-71	1	Washer, Bearing Retaining					IGP-34	1	Felt Wick				
GAS-77	1	Washer, Felt, C.E. Inner					SC-127	1	Felt Washer				
GAS-78	1	Retainer, Felt Washer					8X-56	3	Screw, Retainer Rd. Hd., #8-32x7/16				
GAS-2079G	1	Head Assy., Comm. End					12X-195	3	Lockwasher, Retainer Sc. #8				
GAS-51	2	Spring, Retaining, 3rd. Brush Plate					X-294	1	Ball Bearing, S.A.E. #202				
GAS-79B	1	Head					X-489	1	1/4 Oiler - Press in Type				
GAS-2021R	1	Plate Assy., Main Brush					<u>Miscellaneous Parts</u>						
GAL-31	1	Lead Assy., Ground					GAS-1235A	1	Band, Cover				
X-958	2	Terminal					TC-4305E	1	Regulator, Two Charge				
GAS-15	2	Holder, Brush					8X-118	1	Screw, Cover Band, Fil. Hd. #10-32x3/4				
GAS-17	1	Spring, Brush., Grounded					12X-196	4	Lockwasher, Regulator Mtg., #10				
GAS-18	1	Spring, Brush., Insulated					8X-309	1	Screw, Reg. Mtg., Rd. Hd. #10-32x1/2				
GAS-1021R	1	Plate, Main Brush					8X-321	3	Screw, Reg. Mtg., Rd. Hd. #10-32x5/16				
GEM-12†	2	Brush, Main					1 2 3 4 5						
8X-122	1	Screw, Grounded Br., Fil. Hd. #8-32x1/2					† Brush Set, Service GEM-2012S.						
X-1013	2	Lockwasher, Brush Sc. #8											
8X-1496	1	Screw, Insulated Brush, Bdg. Hd., #8-32x7/16											
GAS-2082R	1	Plate Assy., 3rd. Brush											
GAS-15	1	Holder, Brush											
GAS-17	1	Spring, Brush											
GAS-1082R	1	Plate, 3rd. Brush											
GEM-13†	1	Brush											
X-1013	1	Lockwasher, B. Sc., #8											
8X-1496	1	Screw, Br. Bdg. Hd., #8-32x7/16											
8X-55	3	Screw, Rd. Hd., #8-32x3/8											
X-195	1	Washer, Lock, #8											
X-386	1	Oiler, Press in Type, 1/4											
IA-175	1	Washer, Felt Retaining Plain											
		1	2	3	4	5							

Unit	Application
GAS-4188A	Oliver Corp.

(Issued 1-14-47)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4190 GENERATOR PARTS LIST

GAS-4190

Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)												
Part No.	No. Used	Name of Part					Part No.	No. Used	Name of Part								
		1	2	3	4	5			1	2	3	4	5				
GAS-20A	2	Bolt, Thru					X-1013	1	Lockwasher, Brush Sc., #8								
(GAS-2334)	1	Frame & Field Assy.					8X-1496	1	Screw, Br. Bdg. Hd., #8-32x7/16								
GAS-40	1	Washer, Ins., Term. Stud Inner					8X-55	3	Screw, Plate Attaching Rd. Hd. #8-32x3/8								
GAS-41	1	Bushing, Ins. Term. Stud					X-195	1	Lockwasher, Plate Attaching Sc. #8								
GAS-44	1	Insulation, Field Connection					X-489	1	Oiler, Press in Type, 1/4								
GAS-45	4	Holder, Field Coil					GJ-305	1	Washer, Felt								
GAS-81	1	Lead Assy.					IA-175	2	Washer, Plain								
GBF-36	1	Stud, Terminal #10-32					X-63	3	Screw, Cover, Flat Hd. #8-32x3/8								
X-1423	1	Terminal					X-293	1	Bearing, Ball, S.A.E. #201								
GAS-335	1	Dowel, Aligning					<u>Armature Assembly & Parts Used With</u>										
GAS-2005A	1	Coil Assy., Field, Comp.					GAS-96	1	Ring, Spring, Lock								
GAS-1007B	1	Coil Assy., Field, Left					GAS-337	1	Spacer, Armature Shaft								
X-1423	1	Terminal					GAS-339	1	Key, Square Arm. Shaft								
GAS-1008A	1	Coil Assy., Field, Right					GAS-2336	1	Armature Assy.								
X-959	1	Terminal					GAR-171	1	Snap Ring								
GBF-55	1	Washer, Ins., Term. Stud Outer					IA-158	1	Snap Ring								
MN-21	2	Pin, Dowel					X-161	1	Nut, Shaft, Hex. 1/2-20								
MZ-38A	2	Screw, Pole Shoe					X-1500	1	Washer, Shaft, Skpf. 1/2								
X-140	1	Nut, Hex. Field Ground Sc. #6-32					<u>Drive End Head Assembly & Parts Used With</u>										
X-1274	2	Washer, Skpf. Term. Stud #10					GAS-1099	1	Head Assy., Drive End								
X-1275	1	Washer, Skpf. Ground Sc. #8					GAS-99	1	Head								
X-1350	1	Screw, Ground, Flat Hd. #6-32x7/16					GAS-103	1	Retainer, Felt Washer, Cupped								
8X-1377	2	Nut, Hex., Term. Stud #10-32					GAS-104	1	Retainer, Bearing								
12X-544	2	Lockwasher, Thru Bolt, #10					GG-164	1	Washer, Felt								
<u>Comm. End Head Assembly & Parts Used With</u>						GT-76	1	Retainer, Felt Washer									
GAS-70	1	Gasket, Cover, Comm. End					8X-55	3	Screw, Retainer, Rd. Hd. #8-32x3/8								
GAS-77	1	Washer, Felt					X-195	3	Lockwasher, Retainer Sc. #8								
GAS-78	1	Retainer, Felt Washer					X-295	1	Bearing, Ball S.A.E. #203								
GAS-95	1	Cover, Comm. End					X-489	1	Oiler, Press in Type, 1/4								
GAS-2079	1	Head Assy., Comm. End					<u>Miscellaneous Parts</u>										
GAS-51	2	Spring, Retaining, 3rd. Brush Plate					GAS-1024F	1	Band, Cover								
GAS-79	1	Head					X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2								
GAS-2021R	1	Plate Assy., Main Brush					8X-794	1	Nut, Cover Band, Square #10-32								
GAL-31	1	Lead Assy., Ground							1	2	3	4	5				
X-958	2	Terminal					† Brush Set, Service GEM-2012S.										
GAS-15	2	Holder, Brush					<table border="1" style="margin: auto; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Unit</td> <td style="padding: 5px;">Application</td> </tr> <tr> <td style="padding: 5px;">GAS-4190</td> <td style="padding: 5px;">Crosley</td> </tr> </table>							Unit	Application	GAS-4190	Crosley
Unit	Application																
GAS-4190	Crosley																
GAS-17	1	Spring, Brush, Grounded															
GAS-18	1	Spring, Brush, Insulated															
GAS-1021R	1	Plate, Main Brush															
GEM-12†	2	Brush, Main															
8X-122	1	Screw, Grounded Brush, Fil. Hd. #8-32x1/2															
X-1013	2	Lockwasher, Brush Sc. #8															
8X-1496	1	Screw, Insulated Brush, Bdg. Hd. #8-32x7/16															
GAS-2082R	1	Plate Assy., 3rd. Brush															
GAS-15	1	Holder, Brush															
GAS-17	1	Spring, Brush															
GAS-1082R	1	Plate, 3rd. Brush															
GEM-13†	1	Brush															

1 2 3 4 5

Printed in U. S. A.

(Issued 11-13-46)

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4192 GENERATOR PARTS LIST

GAS-4192

Frame & Field Assembly & Parts Used With					Comm. End Head Assembly (Continued)				
Part No.	No. Used	Name of Part			Part No.	No. Used	Name of Part		
		1	2	3 4 5			1	2 3 4 5	
GAS-20A	2			Bolt, Thru	GEM-13 †	1			Brush
(GAS-2346)	1			Frame & Field Assembly	X-1013	1			Lockwasher, Brush Sc., #8
GAS-44	1			Insulation, Field Connection	8X-1496	1			Screw, Brush, Bdg. Hd. #8-32x7/16
GAS-45	4			Holder, Field Coil	8X-55	3			Screw, Br. Plate Mtg., Rd. Hd. #8-32x3/8
GAS-225	1			Lead Assy.	X-195	1			Lockwasher, Plate Sc., #8
X-1423	1			Terminal	X-489	1			Oiler, Press in Type 1/4
GAS-2005A	1			COIL ASSY., FIELD, COMP.	IA-175	1			Washer, Plain
GAS-1007B	1			Coil Assy., Field, Left	8X-61	1			Screw, Bearing Retaining, Flat Hd. #10-32x7/16
X-1423	1			Terminal	X-63	3			Screw, C.E. Cover, Flat Hd. #8-32x3/8
GAS-1008A	1			Coil Assy., Field, Right	X-293	1			BEARING, BALL, S.A.E. #201
X-959	1			Terminal	Armature Assembly & Parts Used With				
GT-7	1			Bushing, Lead Insulating	GAS-2111	1			ARMATURE ASSY.
MN-21	2			Pin, Dowel	GAR-171	1			Snap Ring, D.E.
MZ-38A	2			Screw, Pole Shoe	IA-158	1			Snap Ring, C.E.
X-140	1			Nut, Field Ground Sc., Hex. #6-32	GJ-179	1			Washer, Armature Shaft, Plain
X-755	1			Terminal	X-160	1			Nut, Shaft, D.E., Hex. 7/16-20
X-1275	1			Washer, Skpf., Ground Sc., #8	12X-205	1			Lockwasher, Shaft, D.E. 7/16
X-1350	1			Screw, Field Ground, Flat Hd. #6-32x7/16	X-260	1			Key, Woodruff, #5
12X-544	2			Lockwasher, Thru Bolt, #10	Drive End Head Assembly & Parts Used With				
Comm. End Head Assembly & Parts Used With					GAS-1207	1			Head Assy., Drive End
GAS-69A	1			Cover, Comm. End	GAS-103	1			Retainer, Felt Washer Cupped
GAS-70	1			Gasket, C.E. Cover	GAS-104	1			Retainer, Bearing
GAS-71	1			Washer, Bearing Retaining Sc.	GAS-207	1			Head
GAS-77	1			Washer, Felt	GG-164	1			Washer, Felt
GAS-78	1			Retainer, Felt Washer	GT-76	1			Retainer, Felt Washer
GAS-2209	1			Head Assy., Comm. End	8X-55	3			Screw, Retainer, Rd. Hd. #8-32x3/8
GAS-51	2			Spring, Retaining, 3rd Brush Plate	X-195	3			Lockwasher, Retainer Sc., #8
GAS-209	1			Head	X-295	1			BEARING, BALL, S.A.E. #203
GAS-2021R	1			Plate Assy., Main Brush	X-489	1			Oiler, Press in Type, 1/4
GAL-31	1			Lead Assy., Ground	Miscellaneous Parts				
X-958	2			Terminal	CB-4014	1			RELAY ASSY., CUTOUT
GAS-15	2			Holder, Brush	CB-123	1			Spring, Armature
GAS-17	1			Spring, Brush, Grounded	CB-160S	1			Cover
GAS-18	1			Spring, Brush, Insulated	PX-55	1			Screw, Arm. Term., Bdg. Hd. #10-32x3/16
GAS-1021R	1			Plate, Main Brush	12X-196	2			Lockwasher, Term. Sc., #10
GEM-12 †	2			Brush, Main	8X-312	1			Screw, Bat. Term., Rd. Hd. #10-32x1/4
8X-122	1			Screw, Grounded Brush, Fill. Hd. #8-32x1/2			1	2 3 4 5	
X-1013	2			Lockwasher, Brush Sc. #8					
8X-1496	1			Screw, Insulated Brush, Bdg. Hd. #8-32x7/16					
GAS-2082R	1			Plate Assy., 3rd Brush					
GAS-15	1			Holder, Brush					
GAS-17	1			Spring, Brush					
GAS-1082R	1			Plate, 3rd Brush					
		1	2	3 4 5					

(Continued on reverse side)

Printed in U.S.A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4192 GENERATOR PARTS LIST

GAS-4192

Page 2

		<u>Miscellaneous Parts (Continued)</u>				
Part No.	No. Used	Name of Part				
		1	2	3	4	5
GAS-87	2	Spacer, Relay Mtg.				
GAS-1024JS	1	Band, Cover				
12X-196	2	Lockwasher, Cutout Relay Mtg. Sc., #10				
8X-311	2	Screw, Cutout Relay Mtg., Rd. Hd. #10-32x3/8				
X-714	1	Nut, Cover Band, Square #10-32				
		1	2	3	4	5

† BRUSH SET, SERVICE GEM-2012S.

NOTE: Part number shown in parenthesis are not recommended for service.

UNIT	APPLICATION
GAS-4192	Le Roi Co.

(Issued 3-22-48)

Printed in U. S. A.

File in
Equipment & Parts List Binder

“NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed.”

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4193 GENERATOR PARTS LIST

GAS-4193

Frame & Field Assembly & Parts Used With		
Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru
(GAS-2349)	1	Frame & Field Assy.
GAS-44	1	Insulation, Field Connection
GAS-45	4	Holder, Field Coil
GAS-86	1	Lead Assembly
X-1423	1	Terminal
GAS-121	1	Bushing, Lead Insulating
GAS-2005D	1	COIL ASSY., FIELD, COMPLETE
GAS-1007B	1	Coil Assy., Field, Left
X-1423	1	Terminal
GAS-1008C	1	Coil, Field, Right
MN-21	2	Pin, Dowel
MZ-38A	2	Screw, Pole Shoe
X-755	2	Terminal
12X-196	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used With

GAS-69A	1	Cover, Comm. End
GAS-70	1	Gasket, C.E. Cover
GAS-71	1	Washer, Bearing Retaining Sc.
GAS-77	1	Washer, Felt
GAS-78	1	Retainer, Felt Washer
GAS-2255	1	Head Assy., Comm. End
GAS-51	2	Spring, Retaining, 3rd. Brush Plate
GAS-255	1	Head, Comm. End
GAS-2021R	1	Plate Assy., Main Brush
GAL-31	1	Lead Assy., Ground
X-958	2	Terminal
GAS-15	2	Holder, Brush
GAS-17	1	Spring, Brush, Grounded
GAS-18	1	Spring, Brush, Insulated
GAS-1021R	1	Plate, Main Brush
GEM-12 †	2	Brush, Main
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2
X-195	2	Lockwasher, Brush Sc., #8
8X-1496	1	Screw, Ins. Brush, Bdg. Hd. #8-32x7/16
GAS-2082R	1	Plate Assy., 3rd. Brush
GAS-15	1	Holder, Brush
GAS-17	1	Spring, Brush
GAS-1082R	1	Plate, 3rd. Brush
GEM-13†	1	Brush
X-195	1	Lockwasher, Brush Sc., #8
8X-1496	1	Screw, Brush, Bdg. Hd. #8-32x7/16
8X-55	3	Screw, Brush Plate Mtg., Rd. Hd. #8-32x3/8

Comm. End Head Assy. (Continued)

Part No.	No. Used	Name of Part
X-195	1	Lockwasher, Plate Sc., #8
X-489	1	Oiler
IA-175	1	Washer, Plain
8X-61	1	Screw, Bearing Retaining, Flat Hd. #10-32x7/16
8X-63	3	Screw, C.E. Cover, Flat Hd. #8-32x3/8
X-293	1	BEARING, BALL, S.A.E. #201

Armature Assembly & Parts Used With

GAS-2111	1	ARMATURE ASSY.
GAR-171	1	Snap Ring, D.E.
IA-158	1	Snap Ring, C.E.
GJ-179A	1	Washer, Shaft, D.E., Plain
8X-160	1	Nut, Shaft, D.E., Hex. 7/16-20
12X-205	1	Lockwasher, Shaft, D.E., 7/16
X-260	1	Key, Woodruff, #5

Drive End Head Assembly & Parts Used With

GAS-1254A	1	Head Assy., Drive End
GAS-103	1	Retainer, Felt Washer, Cupped
GAS-104	1	Retainer, Bearing
GAS-254A	1	Head, Drive End
GG-164	1	Washer, Felt
GT-76	1	Retainer, Felt Washer, Flat
8X-55	3	Screw, Retainer, Rd. Hd. #8-32x3/8
12X-195	3	Lockwasher, Retainer Sc., #8
X-295	1	BEARING, BALL, S.A.E. #203
X-489	1	Oiler

Miscellaneous Parts

GAS-168	2	Spacer, Reg. Mtg.
GAS-1024K	1	Band, Cover
TC-4302A	1	REGULATOR, TWO CHARGE
12X-196	4	Lockwasher, Regulator Mtg. Sc., #10
8X-311	4	Screw, Regulator Mtg., Rd. Hd. #10-32x3/8
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE GEM-2012S.

UNIT	APPLICATION
GAS-4193	Universal Motor

(Issued 6-3-49)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4194 GENERATOR PARTS LIST

GAS-4194

Frame & Field Assembly & Parts Used With		
Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru
(GAS-2350)	1	Frame & Field Assy.
GAS-40	1	Washer, Ins., Term. Stud, Inner
GAS-41	1	Bushing, Ins., Term. Stud
GAS-44	1	Insulation, Field Connection
GAS-45	4	Holder, Field Coil
GAS-81	1	Lead Assy.
GBF-36	1	Stud, Terminal, #10-32
X-1423	1	Terminal
GAS-2005A	1	COIL ASSY., FIELD, COMPLETE
GAS-1007B	1	Coil Assy., Field, Left
X-1423	1	Terminal
GAS-1008A	1	Coil Assy., Field, Right
X-959	1	Terminal
GBF-55	1	Washer, Ins., Term. Stud, Outer
MN-21	2	Pin, Dowel
MZ-38A	2	Screw, Pole Shoe
8X-140	1	Nut, Field Ground, Hex. #6-32
X-1274	2	Washer, Term. Stud, Skpf. #10
X-1275	1	Washer, Field Ground Sc., Skpf. #8
8X-1350	1	Screw, Field Ground, Flat Hd. #6-32x7/16
5X-1377	1	Nut, Term. Stud, Hex. #10-32
12X-196	1	Lockwasher, Terminal Stud, #10
12X-544	2	Lockwasher, Thru Bolt, #10
5X-1377	1	Nut, Term. Stud, Hex. #10-32
Comm. End Head Assembly & Parts Used With		
GAS-69A	1	Cover, Comm. End
GAS-70	1	Gasket, C.E. Cover
GAS-71	1	Washer, Bearing Retaining Sc.
GAS-77	1	Washer, Felt, C.E., Inner
GAS-78	1	Retainer, Felt Washer
GAS-2079C	1	Head Assy., Comm. End
GAS-51	2	Spring, Retaining, 3rd Brush Plate
GAS-79B	1	Head
GAS-2021R	1	Plate Assy., Main Brush
GAL-31	1	Lead Assy., Ground
X-958	2	Terminal
GAS-15	2	Holder, Brush
GAS-17	1	Spring, Brush, Grounded
GAS-18	1	Spring, Brush, Insulated
GAS-1021R	1	Plate, Main Brush
GEM-12 †	2	Brush, Main
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2
X-195	2	Lockwasher, Brush Sc., #8

Comm. End Head Assy. (Continued)		
Part No.	No. Used	Name of Part
8X-1496	1	Screw, Insulated Brush, Bdg Hd. #8-32x7/16
GAS-2082RA	1	Plate Assy., 3rd Brush
GAS-15	1	Holder, Brush
GAS-17	1	Spring, Brush
GAS-1082RA	1	Plate, 3rd Brush
GEM-13 †	1	Brush
8X-878	1	Screw, Brush, Fill. Hd. #8-32x7/16
X-195	1	Lockwasher, Brush Sc., #8
8X-55	3	Screw, Brush Plate, Rd. Hd. #8-32x3/8
X-195	1	Lockwasher, Br. Plate Sc., #8
X-489	1	Oiler
IA-175	1	Washer, Felt Retaining, Plain
8X-61	1	Screw, Bearing Retaining, Flat Hd. #10-32x7/16
8X-63	3	Screw, C.E. Cover, Flat Hd. #8-32x3/8
X-293	1	BEARING, BALL, S.A.E. #201
Armature Assembly & Parts Used With		
GAS-2076	1	ARMATURE ASSY.
GAS-53	1	Snap Ring, D.E.
IA-158	1	Snap Ring, C.E.
X-1460A	1	Key, Woodruff, #212
Drive End Head Assy. & Parts Used With		
GAS-1075E	1	Head Assy., Drive End
DB-13	1	Retainer, Felt Washer, Flat
GAS-73	1	Retainer, Felt Washer, Cupped
GAS-74	1	Retainer, Bearing
GAS-75B	1	Head
IGP-34	1	Wick, Felt
SC-127	1	Washer, Felt
8X-55	3	Screw, Retainer, Rd. Hd. #8-32x3/8
X-195	3	Lockwasher, Retainer Sc., #8
X-294	1	BEARING, BALL, S.A.E. #202
X-489	1	Oiler
Miscellaneous Parts		
GAS-24F	1	Band, Cover
X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32
† BRUSH SET, SERVICE GEM-2012S.		
UNIT		APPLICATION
GAS-4194		Kermath

(Issued 10-15-48)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4195A GENERATOR PARTS LIST

GAS-4195A
(Issued 4-9-51)

Frame & Field Assembly & Parts Used With			Comm. End Head Assembly (Continued)						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
GAS-20A	2	Bolt, Thru	GAS-2072L	1	Plate Assy., 3rd. Brush				
(GAS-3206)	1	Frame & Field Assy.	GAS-15	1	Holder, Brush				
GAS-40	2	Washer, Ins., Term. Stud, Inner	GAS-18	1	Spring, Brush				
GAS-41	2	Bushing, Ins., Term. Stud	GAS-1072L	1	Plate, 3rd. Brush				
GAS-44	1	Insulation, Field Connection	GEM-13†	1	Brush				
GAS-45	4	Holder, Field Coil	X-195	1	Lockwasher, Holder Sc., #8				
GAS-81	1	Lead Assembly	8X-878	1	Screw, Br. Holder, Fill. Hd. #8-32x7/16				
GBF-36	1	Stud, Terminal, #10-32	8X-55	3	Screw, Rd. Hd. #8-32x3/8				
X-1423	1	Terminal	X-195	1	Lockwasher, #8				
GAS-2005N	1	COIL ASSY., FIELD, COMPLETE	X-489	1	Oiler				
GAS-1007A	1	Coil Assy., Field, Left	IA-175	1	Washer, Plain				
X-1424	1	Terminal	8X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16				
GAS-1008G	1	Coil, Field, Right	8X-63	3	Screw, C.E. Cover, Flat Hd. #8-32x3/8				
GBF-36	1	Stud, Terminal, #10-32	X-293	1	BEARING, BALL, S.A.E. #201				
GBF-55	2	Washer, Ins., Term. Stud, Outer	<u>Armature Assembly & Parts Used With</u>						
MN-21	2	Pin, Dowel	GAS-3076	1	ARMATURE ASSY.				
MZ-38A	2	Screw, Pole Shoe	GAS-53	1	Snap Ring, D.E.				
12X-196	2	Lockwasher, Term. Stud, #10	IA-158	1	Snap Ring, C.E.				
X-1274	4	Washer, Term. Stud, Skpf. #10	SP-772A	1	Pulley, Drive				
8X-1377	4	Nut, Term. Stud, Hex. #10-32	8X-160	1	Nut, Shaft, D.E., Hex. 7/16-20				
12X-196	3	Lockwasher, Thru Bolt & Grd. Sc., #10	X-1278	1	Washer, Shaft, D.E., Skpf. 7/16				
8X-321	1	Screw, Ground, Rd. Hd. #10-32x5/16	X-1460A	1	Key, Woodruff, #212				
<u>Comm. End Head Assembly & Parts Used With</u>			<u>Drive End Head Assembly & Parts Used With</u>						
GAS-69A	1	Cover, Comm. End	GAS-1075E	1	Head Assy., Drive End				
GAS-70	1	Gasket, C.E. Cover	DB-13	1	Retainer, Felt Washer, Flat				
GAS-71	1	Washer, Bearing Retaining Sc.	GAS-73	1	Retainer, Felt Washer, Cupped				
GAS-77	1	Washer, Felt	GAS-74	1	Retainer, Bearing				
GAS-78	1	Retainer, Felt Washer	GAS-75B	1	Head, Drive End				
GAS-3068	1	Head Assy., Comm. End	IGP-34	1	Wick, Felt				
GAS-51	2	Spring, Retaining, 3rd. Brush Plate	SC-127	1	Washer, Felt				
GAS-68	1	Head, Comm. End	8X-55	3	Screw, Retainer, Rd. Hd. #8-32x3/8				
GAS-2021L	1	Plate Assy., Main Brush	X-195	3	Lockwasher, Retainer Sc., #8				
GAL-31	1	Lead Assy., Ground	X-294	1	BEARING, BALL, S.A.E. #202				
X-958	2	Terminal	X-489	1	Oiler				
GAS-15	2	Holder, Brush	<u>Miscellaneous Parts</u>						
GAS-17	1	Spring, Brush, Insulated	GAS-1024F	1	Band, Cover				
GAS-18	1	Spring, Brush, Grounded	8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
GAS-1021L	1	Plate, Main Brush	8X-794	1	Nut, Cover Band, Square #10-32				
GEM-12†	2	Brush	† BRUSH SET, SERVICE GEM-2012S.						
8X-122	2	Screw, Br. Holder, Fill. Hd. #8-32x1/2	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 2px;">UNIT</td> <td style="padding: 2px;">APPLICATION</td> </tr> <tr> <td style="padding: 2px;">GAS-4195A</td> <td style="padding: 2px;">Kalamazoo Mfg. Co.</td> </tr> </table>			UNIT	APPLICATION	GAS-4195A	Kalamazoo Mfg. Co.
UNIT	APPLICATION								
GAS-4195A	Kalamazoo Mfg. Co.								
X-195	2	Lockwasher, Holder Sc., #8							

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4196 GENERATOR PARTS LIST

GAS-4196
(Issued 5-5-51)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru
(GAS-2349)	1	Frame & Field Assy.
GAS-44	1	Insulation, Field Connection
GAS-45	4	Holder, Field Coil
GAS-86	1	Lead Assembly
X-1423	1	Terminal
GAS-121	1	Bushing Lead Insulating
GAS-2005D	1	COIL ASSY., FIELD, COMPLETE
GAS-1007B	1	Coil Assy., Field, Left
X-1423	1	Terminal
GAS-1008C	1	Coil, Field, Right
MN-21	2	Pin, Dowel
MZ-38A	2	Screw, Pole Shoe
X-755	2	Terminal
12X-196	3	Lockwasher, Thru Bolt & Grd. Sc., #10
8X-312	1	Screw, Ground, Rd. Hd. #10-32x1/4

Comm. End Head Assembly & Parts Used With

GAS-69A	1	Cover, Comm. End
GAS-70	1	Gasket, C.E. Cover
GAS-71	1	Washer, Bearing Retaining Sc.
GAS-77	1	Washer, Felt
GAS-78	1	Retainer, Felt Washer
GAS-2255	1	Head Assy., Comm. End
GAS-51	2	Spring, Retaining, 3rd. Brush Plate
GAS-255	1	Head, Comm. End
GAS-2021R	1	Plate Assy., Main Brush
GAL-31	1	Lead Assy., Ground
X-958	2	Terminal
GAS-15	2	Holder, Brush
GAS-17	1	Spring, Brush, Grounded
GAS-18	1	Spring, Brush, Insulated
GAS-1021R	1	Plate, Main Brush
GEM-12†	2	Brush, Main
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2
X-195	2	Lockwasher, Brush Sc., #8
8X-1496	1	Screw, Ins., Brush, Bdg. Hd. #8-32x7/16
GAS-2082R	1	Plate Assy., 3rd. Brush
GAS-15	1	Holder, Brush
GAS-17	1	Spring, Brush
GAS-1082R	1	Plate, 3rd. Brush
GEM-13†	1	Brush, Third
X-195	1	Lockwasher, Brush Sc., #8

Comm. End Head Assembly (Continued)

Part No.	No. Used	Name of Part
8X-1496	1	Screw, Brush, Bdg. Hd. #8-32x7/16
8X-55	3	Screw, Brush Plate Mtg., Rd. Hd. #8-32x3/8
X-195	1	Lockwasher, Plate Sc., #8
X-489	1	Oiler
IA-175	1	Washer, Plain
8X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16
8X-63	3	Screw, C.E. Cover, Flat Hd. #8-32x3/8
X-293	1	BEARING, BALL, S. A. E. #201

Armature Assembly & Parts Used With

GAS-2111	1	ARMATURE ASSY.
GAR-171	1	Snap Ring, D.E.
IA-158	1	Snap Ring, C.E.
GJ-179A	1	Washer, Shaft, D.E., Plain
8X-160	1	Nut, Shaft, D.E., Hex. 7/16-20
12X-205	1	Lockwasher, Shaft, D.E., 7/16
X-260	1	Key, Woodruff, #5

Drive End Head Assembly & Parts Used With

GAS-1254A	1	Head Assy., Drive End
GAS-103	1	Retainer, Felt Washer, Cupped
GAS-104	1	Retainer, Bearing
GAS-254A	1	Head, Drive End
GG-164	1	Washer, Felt
GT-76	1	Retainer, Felt Washer, Flat
8X-55	3	Screw, Retainer, Rd. Hd. #8-32x3/8
12X-195	3	Lockwasher, Retainer Sc., #8
X-295	1	BEARING, BALL, S. A. E. #203
X-489	1	Oiler

Miscellaneous Parts

CB-4014	1	RELAY ASSY., CUTOUT
CB-123	1	Spring, Armature
CB-160S	1	Cover, Relay
PX-55	1	Screw, Arm. Term., Bdg. Hd. #10-32x3/16
12X-196	2	Lockwasher, Term. Sc., #10

(Continued on Reverse Side)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4196 GENERATOR PARTS (Continued)

Miscellaneous Parts (Cont.)		
Part No.	No. Used	Name of Part
8X-312	1	Screw, Bat. Term., Rd. Hd. #10-32x1/4
GAS-87A	2	Spacer, Relay Mtg.
GAS-1024K	1	Band, Cover
12X-196	2	Lockwasher, Mtg. Sc., #10
8X-311	2	Screw, Relay Mtg., Rd. Hd. #10-32x3/8
8X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† GEM-2012S BRUSH SET, SERVICE.

UNIT	APPLICATION
GAS-4196	Universal Mtr.

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4197 GENERATOR PARTS LIST

GAS-4197
(Issued 2-12-52)

Frame & Field Assembly & Parts Used With		
Part No.	No. Used	Name of Part
GAS-151	2	Bolt, Thru
GAS-2358	1	Frame & Field Assy.
GAS-44	1	Insulation, Field Connection
GAS-45	4	Holder, Field Coil
GAS-86	1	Lead Assembly
X-1423	1	Terminal
GAS-121	1	Bushing, Insulation
GAS-2005D	1	COIL ASSY., FIELD, COMPLETE
GAS-1007B	1	Coil Assy., Field, Left
X-1423	1	Terminal
GAS-1008C	1	Coil, Field, Right
MN-21	2	Pin, Dowel
MZ-38C	2	Screw, Pole Shoe
X-755	2	Terminal
12X-196	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used With

GAS-69A	1	Cover, Comm. End
GAS-70	1	Gasket, C. E. Cover
GAS-71	1	Washer, Bearing Retaining Sc.
GAS-77	1	Washer, Felt
GAS-78	1	Retainer, Felt Washer
GAS-2079G	1	Head Assy., Comm. End
GAS-51	2	Spring, Retaining, 3rd Brush Plate
GAS-79B	1	Head, Comm. End
GAS-2021R	1	Plate Assy., Main Brush
GAL-31	1	Lead Assy., Ground
X-958	2	Terminal
GAS-15	2	Holder, Brush
GAS-17	2	Spring, Brush, Grounded
GAS-18	1	Spring, Brush, Insulated
GAS-1021R	1	Plate, Main Brush
GEM-12†	2	Brush, Main
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2
X-195	2	Lockwasher, Brush Sc., #8
8X-1496	1	Screw, Ins., Brush, Bdg. Hd. #8-32x7/16
GAS-2082R	1	Plate Assy., 3rd. Brush
GAS-15	1	Holder, Brush
GAS-17	1	Spring, Brush
GAS-1082R	1	Plate, 3rd Brush
GEM-13†	1	Brush, Third
X-195	1	Lockwasher, Brush Sc., #8
8X-1496	1	Screw, Brush, Bdg. Hd. #8-32x7/16
8X-55	3	Screw, Br. Plate, Rd. Hd. #8-32x3/8

Comm. End Head Assembly (Continued)

Part No.	No. Used	Name of Part
X-195	1	Lockwasher, Plate Sc., #8
X-386	1	Oiler
IA-175	1	Washer, Plain
8X-61	1	Screw, Brg. Retainer, Flat Hd. #10-32x3/8
X-63	3	Screw, C. E. Cover, Flat Hd. #8-32x3/8
X-293	1	BEARING, BALL, S. A. E. #201

Armature Assembly & Parts Used With

GAS-152	1	Oil Thrower
GAS-2153	1	ARMATURE ASSY.
GAS-53	1	Snap Ring, D. E.
IA-158	1	Snap Ring, C. E.
GR-32A	1	Retainer, Felt Washer
X-160	1	Nut, Shaft, D. E., Hex. 7/16-20
X-1278	1	Washer, Shaft, D. E., Skpf. 7/16
X-1460A	1	Key, Woodruff, #212

Drive End Head Assy. & Parts Used With

GAS-150	1	Gasket, D. E. Head
GAS-1154	1	Head Assy., Drive End
GAS-154	1	Head, D. E.
GAS-155	1	Retainer, Bearing
GAS-156	1	Gasket, Brg. Retainer
GAS-324	1	Retainer, Felt Washer
GG-164	1	Washer, Felt
X-196	3	Lockwasher, Retainer Sc. #10
8X-311	3	Screw, Brg. Retainer, Rd. Hd. #10-32x3/8
X-1470	1	BEARING, BALL, SHIELDED, S. A. E. #202

Miscellaneous Parts

GAS-1171A	1	Band, Cover
TC-4327F	1	REGULATOR, TWO CHARGE
X-118	1	Screw, Cover Band, Fill. Hd. #10-32x3/4
12X-196	4	Lockwasher, Mtg. Sc., #10
8X-309	1	Screw, Reg. Mtg., Rd. Hd. #10-32x1/2
8X-321	3	Screw, Reg. Mtg., Rd. Hd. #10-32x5/16

† BRUSH SET, SERVICE GEM-2012S.

UNIT	APPLICATION
GAS-4197	Hercules

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4198-1 GENERATOR PARTS LIST

GAS-4198-1
(Issued 10-6-55)

Frame & Field Assembly & Parts Used With			Comm. End Head Assembly (Con't.)						
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part				
GAS-20A	2	Bolt, Thru	X-63	3	Screw, C. E. Cover, Flat Hd. #8-32x3/8				
GAS-3361	1	Frame & Field Assy.	X-293	1	BEARING, BALL, S. A. E. #201				
GAS-44	1	Insulation, Field Connection	<u>Armature Assembly & Parts Used With</u>						
GAS-45	4	Holder, Field Coil	GAS-3111	1	ARMATURE ASSY.				
GAS-121	1	Bushing, Insulation	GAR-171	1	Snap Ring, D. E.				
GAS-181	1	Lead Assy.	IA-158	1	Snap Ring, C. E.				
X-1423	1	Terminal	GJ-179	1	Washer, Shaft, Plain, D. E.				
GAS-2005E	1	COIL ASSY., FIELD, COMPLETE	X-160	1	Nut, Shaft, D. E. Hex. 7/16-20				
GAS-1007A	1	Coil Assy., Field, Left	12X-205	1	Lockwasher, Shaft, D. E., 7/16				
X-1424	1	Terminal	X-260	1	Key, Woodruff, #5				
GAS-1008E	1	Coil, Field, Right	<u>Drive End Head Assembly & Parts Used With</u>						
MN-21	2	Pin, Dowel	GAS-1362	1	Head Assy., Drive End				
MZ-38A	2	Screw, Pole Shoe	GAS-103	1	Retainer, Felt Washer, Cupped				
X-755	2	Terminal	GAS-104	1	Retainer, Bearing				
12X-196	2	Lockwasher, Thru Bolt, #10	GAS-362	1	Head, Drive End				
<u>Comm. End Head Assembly & Parts Used With</u>			GG-164	1	Washer, Felt				
GAS-69A	1	Cover, Comm. End	GT-76	1	Retainer, Felt Washer				
GAS-70	1	Gasket, C. E. Cover	8X-55	3	Screw, Retainer, Rd. Hd. #8-32x3/8				
GAS-71	1	Washer, Brg. Retaining Sc.	12X-195	3	Lockwasher, Retainer Sc., #8				
GAS-77	1	Washer, Felt	X-295	1	BEARING, BALL, S. A. E. #203				
GAS-78	1	Retainer, Felt Washer	X-489	1	Oiler				
GAS-3186	1	Head Assy., Comm. End	<u>Miscellaneous Parts</u>						
GAS-51	2	Spring, Retaining, 3rd. Brush Plate	GAS-168	2	Spacer, Reg. Mtg.				
GAS-186	1	Head, Comm. End	GAS-1024E	1	Band, Cover				
GAS-2021L	1	Plate Assy., Main Brush	TC-4301C	1	REGULATOR, TWO CHARGE				
GAL-31	1	Lead Assy., Ground	12X-196	4	Lockwasher, Mtg. Sc., #10				
X-958	2	Terminal	8X-311	4	Screw, Reg. Mtg., Rd. Hd. #10-32x3/8				
GAS-15	2	Holder, Brush	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2				
GAS-17	1	Spring, Brush, Insulated	8X-794	1	Nut, Cover Band, Square #10-32				
GAS-18	1	Spring, Brush, Grounded	‡ BRUSH SET, SERVICE GEM-2012S.						
GAS-1021L	1	Plate, Main Brush	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">UNIT</th> <th style="width: 50%;">APPLICATION</th> </tr> </thead> <tbody> <tr> <td>GAS-4198-1</td> <td>Fairmont Rwy.</td> </tr> </tbody> </table>			UNIT	APPLICATION	GAS-4198-1	Fairmont Rwy.
UNIT	APPLICATION								
GAS-4198-1	Fairmont Rwy.								
GEM-12‡	2	Brush							
8X-122	2	Screw, Br. Holder, Fill. Hd. #8-32x1/2							
X-195	2	Lockwasher, Holder Sc., #8							
GAS-2072LA	1	Plate Assy., 3rd. Brush							
GAS-15	1	Holder, Brush							
GAS-18	1	Spring, Brush							
GAS-1072LA	1	Plate, 3rd. Brush							
GEM-13‡	1	Brush, Third							
X-195	1	Lockwasher, Holder Sc., #8							
8X-878	1	Screw, Br. Holder, Fill. Hd. #8-32x7/16							
8X-55	3	Screw, Rd. Hd. #8-32x3/8							
X-195	1	Lockwasher, #8							
X-489	1	Oiler							
IA-175	1	Washer, Plain							
8X-61	1	Screw, Brg. Retaining, Flat Hd. #10-32x7/16							

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4301 GENERATOR PARTS LIST

GAS-4301

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru
(GAS-2167)	1	Frame & Field Assy.
GAS-44	1	Insulation, Field Connection
GAS-45	2	Holder, Field Coil
GAS-86	1	Lead Assy.
X-1423	1	Terminal
GAS-121	1	Bushing, Insulating
GAS-2005D	1	COIL ASSY., FIELD, COMP.
GAS-1007B	1	Coil Assy., Field, Left
X-1423	1	Terminal
GAS-1008C	1	Coil, Field, Right
MN-21	2	Pin, Dowel
MZ-38A	2	Screw, Pole Shoe
X-755	2	Terminal
12X-544	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used With

GAS-2174A	1	Head Assy., Comm. End
GAS-51	2	Spring, Retaining, 3rd Br. Plate
GAS-281	1	Wick, Felt
GAS-1174	1	Head Assy., Partial, C.E.
GAS-49	1	BEARING, ABS. BRONZE
GAS-2021RA	1	Plate Assy., Main Brush
GAL-31	1	Lead Assy., Ground
X-958	2	Terminal
GAS-12 †	2	Brush, Main
GAS-15	2	Holder, Brush
GAS-17	1	Spring, Brush, Grounded
GAS-18	1	Spring, Brush Insulated
GAS-1021R	1	Plate, Main Brush
8X-122	1	Screw, Grounded Brush, Fil. Hd., #8-32x1/2
12X-195	2	Lockwasher, Brush Sc.#8
8X-1496	1	Screw, Insulated Brush Bdg. Hd., #8-32x7/16
GAS-2126A	1	Plate Assy., 3rd Brush
GAS-13 †	1	Brush, Third
GAS-15	1	Holder, Brush
GAS-17	1	Spring, Brush
GAS-1126	1	Plate, 3rd Brush
12X-195	1	Lockwasher, Brush Sc.#8
8X-878	1	Screw, Third Brush Fil. Hd. #8-32x7/16
IG-515A	1	Spring, Felt Wick
8X-55	3	Screw, Rd. Hd., #8-32x3/8
12X-195	1	Lockwasher, #8
X-1275	1	Washer, Felt Wick
X-1573	1	Oiler, Press in Type, 3/8

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS-1176	1	Oil Thrower
GAS-2175	1	ARMATURE
GK-174A	1	Washer, Plain, 1/2
X-263	1	Key, Woodruff, D.E., #8
X-404	1	Pin, Cotter, 3/32x1
X-835	1	Nut, Shaft, Slotted 1/2-20

Drive End Head Assembly & Parts Used With

GAS-1232	1	Head Assy., Drive End
GAS-177	1	Retainer, Bearing
GAS-232	1	Head
8X-63	3	Screw, Flat Hd., #8-32x3/8
X-378	1	BEARING, BALL, SHIELDED, S.A.E. #204

Dist. Mounting Housing & Parts Used With

GAG-58	1	Dist., Mtg., Housing Clamp
GE-61	1	GEAR, DIST., DRIVER
GT-121B	1	Housing, Mounting, Dist.
GW-19	1	Cover, Bearing, C.E.
IGB-354	1	Rivet, Gear
8X-53	1	Screw, Dist. Housing Clamp, Rd. Hd. #8-32x5/8
8X-141	1	Nut, Hex., #8-32
X-382	1	Cup, Grease, 1/8 Pipe
12X-544	3	Lockwasher, Housing Sc., #10
8X-900	3	Screw, Dist. Housing Mtg., Fil. Hd. #10-32x7/8

Miscellaneous Parts

GAS-168	2	Spacer, Reg. Mtg.
GAS-1024JS	1	Band, Cover
TC-4329C	1	TWO CHARGE REGULATOR
12X-196	4	Lockwasher, Regulator Mtg., #10
8X-311	4	Screw, Regulator Mtg., Rd. Hd. #10-32x3/8
X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover, Band, Square #10-32

† BRUSH SET, SERVICE GAS-2012.

UNIT	APPLICATION
GAS-4301	Wisconsin

(Issued 8-24-48)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4302 GENERATOR PARTS LIST

GAS-4302

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru
(GAS-2167)	1	Frame & Field Assy.
GAS-44	1	Insulation, Field Connection
GAS-45	4	Holder, Field Coil
GAS-86	1	Lead Assy.
X-1423	1	Terminal
GAS-121	1	Bushing, Insulating
GAS-2005D	1	COIL ASSY., FIELD, COMP.
GAS-1007B	1	Coil Assy., Field, Left
X-1423	1	Terminal
GAS-1008C	1	Coil, Field, Right
MN-21	2	Pin, Dowel
MZ-38A	2	Screw, Pole Shoe
X-755	2	Terminal
12X-544	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used With

GAS-2132AS	1	Head Assy., Comm. End
GAS-51	2	Spring, Retaining, 3rd Brush Plate
GAS-281	1	Wick, Felt
GAS-1132S	1	Head Assy., Partial, C.E.
GAS-49	1	Bearing, Abs. Bronze
GAS-2021RA	1	Plate Assy., Main Brush
GAL-31	1	Lead Assy., Ground
X-958	2	Terminal
GAS-12 †	2	Brush, Main
GAS-15	2	Holder, Brush
GAS-17	1	Spring, Brush, Grounded
GAS-18	1	Spring, Brush, Insulated
GAS-1021R	1	Plate, Main Brush
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2
12X-1013	2	Lockwasher, Brush Sc. #8
8X-1496	1	Screw, Insulated Brush, Bdg. Hd. #8-32x7/16
GAS-2126A	1	Plate Assy., 3rd Brush
GAS-13 †	1	Brush, Third
GAS-15	1	Holder, Brush
GAS-17	1	Spring, Brush
GAS-1126	1	Plate, 3rd Brush
8X-878	1	Screw, Third Brush, Fill. Hd. #8-32x7/16
12X-1013	1	Lockwasher, Brush Sc., #8
IG-515A	1	Spring, Felt Wick
8X-55	3	Screw, Spring, Rd. Hd. #8-32x3/8
12X-195	1	Lockwasher, #8
X-1275	1	Washer, Oiler, Skpf. #8
X-1573	1	Oiler, Hinge Top, Press in, 3/8

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS-1176	1	Oil Thrower
GAS-2175	1	ARMATURE
GK-174A	1	Washer, Arm. Shaft, D.E.
X-263	1	Key, Woodruff, #8
X-404	1	Pin, Cotter, 3/32x1
X-835	1	Nut, Shaft, D.E. Slotted 1/2-20

Drive End Head Assembly & Parts Used With

GAS-1232AS	1	Head Assy., Drive End
GAS-177	1	Retainer, Bearing
GAS-232AS	1	Head
8X-63	3	Screw, Retainer, Flat Hd. #8-32x3/8
X-378	1	BEARING, BALL, SHIELDED S.A.E. #204

Igniter Housing Assy. & Parts Used With

GAG-58	1	Dist. Mounting Housing Clamp
GAL-98	1	Housing, Dist. Mtg.
GE-58	1	Gear, Driver
GW-19	1	Cover, Bearing, C.E.
SW-213	1	Rivet, Gear
8X-53	1	Screw, Dist. Housing Clamp, Rd. Hd. #8-32x5/8
8X-141	1	Nut, Dist. Housing Clamp, Hex. #8-32
X-380	1	Cup, Grease, 1/8 Pipe
12X-544	3	Lockwasher, Dist. Housing Screw, #10
8X-900	3	Screw, Dist. Housing Mtg., Fil. Hd. #10-32x7/8

Miscellaneous Parts

GAS-168	2	Spacer, Reg. Mtg.
GAS-1024JS	1	Band, Cover
TC-4329C	1	TWO CHARGE REGULATOR
12X-196	4	Lockwasher, Regulator Mtg. Sc., #10
8X-311	4	Screw, Regulator Mtg., Rd. Hd. #10-32x3/8
X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

† BRUSH SET, SERVICE GAS-2012

UNIT	APPLICATION
GAS-4302	Wisconsin

(Issued 6-15-48)

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4303 GENERATOR PARTS LIST

GAS-4303
(Issued 9-16-53)

Frame & Field Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru
GAS-2167	1	Frame & Field Assembly
GAS-44	1	Insulation, Field Connection
GAS-45	4	Holder, Field Coil
GAS-86	1	Lead Assembly
X-1423	1	Terminal
GAS-121	1	Bushing, Insulating
GAS-2005D	1	COIL ASSY., FIELD, COMPLETE
GAS-1007B	1	Coil Assy., Field, Left
X-1423	1	Terminal
GAS-1008C	1	Coil, Field, Right
MN-21	2	Pin, Dowel
MZ-38A	2	Screw, Pole Shoe
X-755	2	Terminal
12X-196	2	Lockwasher, Thru Bolt, #10

Comm. End Head Assembly & Parts Used With

GAS-2174B	1	Head Assy., Comm. End
GAS-51	2	Spring, Retaining, 3rd Brush Plate
GAS-281	1	Wick, Felt
GAS-1174	1	Head Assy., Partial, C. E.
GAS-49	1	BEARING, ABS. BRONZE
GAS-2021RA	1	Plate Assy., Main Brush
GAL-31	1	Lead Assy., Ground
X-958	2	Terminal
GAS-12†	2	Brush, Main
GAS-15	2	Holder, Brush
GAS-17	1	Spring, Brush, Grounded
GAS-18	1	Spring, Brush, Insulated
GAS-1021R	1	Plate, Main Brush
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2
12X-195	2	Lockwasher, Brush Sc., #8
8X-1496	1	Screw, Ins., Brush, Bdg. Hd. #8-32x7/16
GAS-2126A	1	Plate Assy., 3rd Brush
GAS-13†	1	Brush, Third
GAS-15	1	Holder, Brush
GAS-17	1	Spring, Brush
GAS-1126	1	Plate, 3rd, Brush
12X-195	1	Lockwasher, Brush Sc., #8
8X-878	1	Screw, 3rd Brush, Fill. Hd. #8-32x7/16
IG-515A	1	Spring, Felt Wick
8X-55	3	Screw, Rd. Hd. #8-32x3/8
12X-195	1	Lockwasher, #8
X-1275	1	Washer, Wick Spring
X-3172	1	Oiler

Armature Assembly & Parts Used With

Part No.	No. Used	Name of Part
GAS-1176	1	Oil Thrower
GAS-2175	1	ARMATURE
GK-174/	1	Washer, Thrust, D. E.
X-263	1	Key, Woodruff, #8
X-404	1	Pin, Cotter
X-835	1	Nut, Arm. Shaft, D. E.

Drive End Head Assembly & Parts Used With

GAS-1232B	1	Head Assy., Drive End
GAS-177	1	Retainer, Bearing
GAS-232B	1	Head, Drive End
8X-63	3	Screw, Retainer, Flat Hd. #8-32x3/8
X-3003	1	BEARING, BALL, SHIELDED, S. A. E. #204

Dist. Housing Mtg. & Parts Used With

GAG-58	1	Clamp, Dist. Mtg. Housing
GE-45	1	Gear, Dist. Driver
GT-121B	1	Housing, Dist. Mtg.
GW-19	1	Cover, Bearing, C. E.
SW-213	1	Rivet, Gear
8X-53	1	Screw, Dist. Housing Clamp, Rd. Hd. #8-32x5/8
8X-141	1	Nut, Clamp Sc., Hex. #8-32
12X-196	3	Lockwasher, Housing Screw, #10
X-382	1	Cup, Grease, 1/8 Pipe
8X-900	3	Screw, Dist. Housing Mtg., Fill. Hd. #10-32x7/8

Miscellaneous Parts

GAS-168	2	Spacer, Reg. Mtg.
GAS-1024JS	1	Band, Cover
TC-4329C	1	REGULATOR, TWO CHARGE
12X-196	4	Lockwasher, Reg. Mtg. Screw, #10
8X-311	4	Screw, Reg. Mtg., Rd. Hd. #10-32x3/8
X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
8X-794	1	Nut, Cover Band, Square #10-32

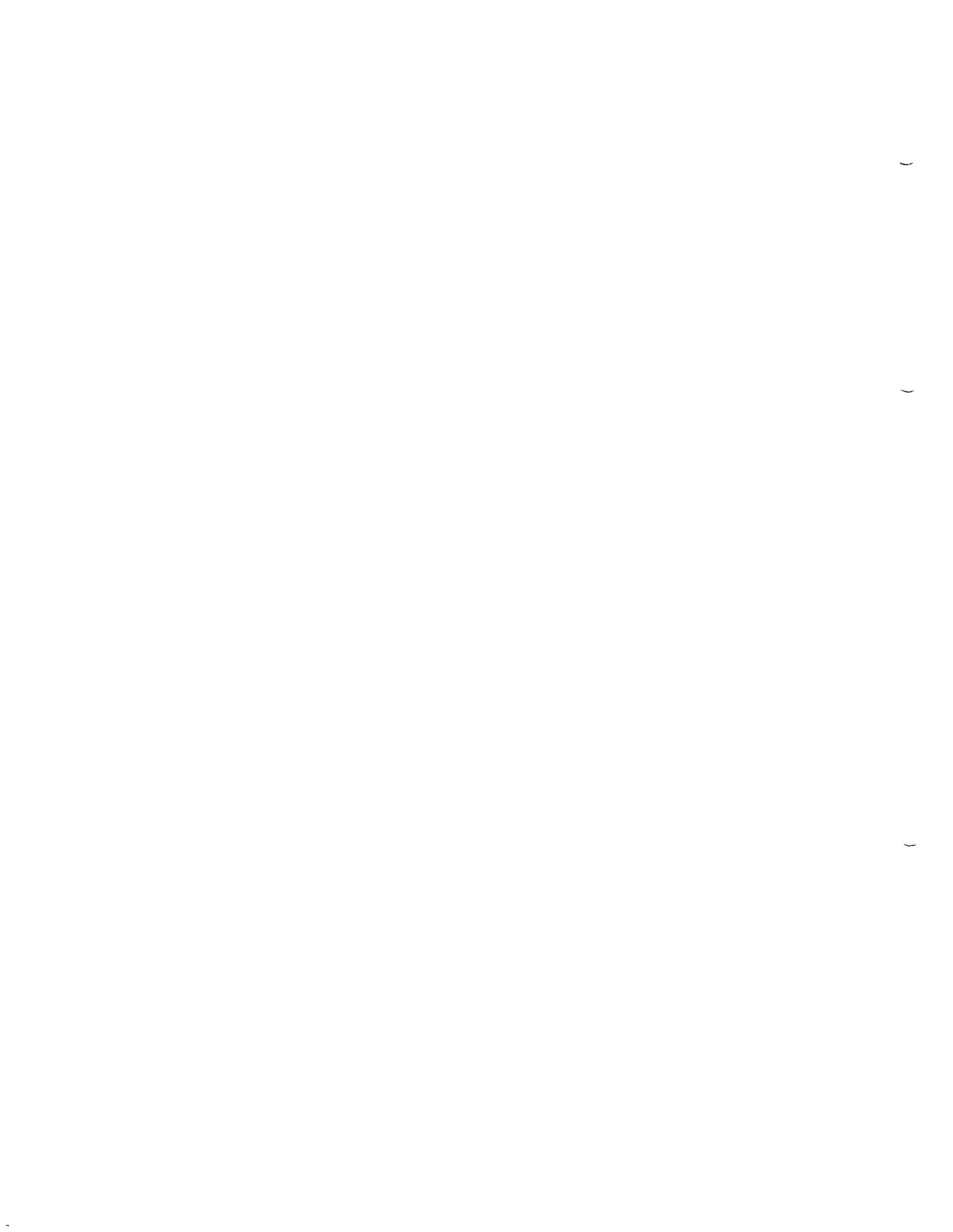
NOTE: † BRUSH SET, SERVICE GAS-2012.

UNIT	APPLICATION
GAS-4303	Wisconsin Eng.

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."



ELECTRIC AUTO-LITE EQUIPMENT & PARTS LISTS

GAS-4304 GENERATOR PARTS LIST

GAS-4304
(Issued 4-20-55)

Frame & Field Assembly & Parts Used With			Armature Assembly & Parts Used With		
Part No.	No. Used	Name of Part	Part No.	No. Used	Name of Part
GAS-20A	2	Bolt, Thru	GAS-2218	1	ARMATURE ASSEMBLY
GAS-2360	1	Frame & Field Assembly	GAR-171	1	Snap Ring, D. E.
GAS-44	1	Insulation, Field Connection	GBM-21B	1	Nut, Arm. Shaft, D. E.
GAS-45	4	Holder, Field Coil	X-260	1	Key, Woodruff, #5
GAS-121	1	Bushing, Insulating	X-864	1	Lockwasher, Shaft, D. E.
GAS-260A	1	Lead Assembly			
X-1423	1	Terminal			
GAS-1005E	1	COIL ASSEMBLY, FIELD, COMPLETE	Drive End Head Assembly & Parts Used With		
GAS-1007B	1	Coil Assy., Field, Left	GAS-1217A	1	Head Assy., Drive End
X-1423	1	Terminal	DA-39	1	Retainer, Felt Washer, Flat
GAS-1008Q	1	Coil, Field, Right	GAS-103	1	Retainer, Felt Washer, Cupped
MN-21	2	Pin, Dowel	GAS-104	1	Retainer, Bearing
MZ-38A	2	Screw, Pole Shoe	GAS-217A	1	Head, D. E.
X-755	2	Terminal	GG-164	1	Washer, Felt
12X-196	2	Lockwasher, Thru Bolt, #10	8X-55	3	Screw, Brg. Retainer, #8-32x3/8
			X-195	3	Lockwasher, Retainer Screw, #8
			X-441	1	BEARING, BALL, SHIELDED, S. A. E. #203
			X-489	1	Oiler
					Miscellaneous Parts
Comm. End Head Assembly & Parts Used With			GAS-168	2	Spacer, Reg. Mtg.
GAS-2229S	1	Head Assy., Comm. End	GAS-1024E	1	Band, Cover
GAR-73	1	Wick, Felt	TC-4327E	1	REGULATOR, TWO CHARGE
GAR-98A	1	Cover, Felt, Wick	12X-196	4	Lockwasher, Mtg. Screw, #10
GAS-51	2	Spring, Retaining, 3rd. Brush Plate	8X-311	4	Screw, Reg. Mtg., Rd. Hd. #10-32x3/8
GAS-220	1	Oil Guard	X-714	1	Screw, Cover Band, Rd. Hd. #10-32x1 1/2
GAS-221	1	Gasket, Oil Retaining	8X-794	1	Nut, Cover Band, Square #10-32
GAS-223	1	Gasket, Cover			
GAS-1222	1	Cover, Comm. End			
GAS-1229	1	Head Assy., Partial, C. E.			
GAS-224	1	BEARING, ABSORBENT BRONZE			
GAS-2021R	1	Plate Assy., Main Brush			
GAL-31	1	Lead Assy., Ground			
X-958	2	Terminal			
GAS-15	2	Holder, Brush			
GAS-17	1	Spring, Brush, Grounded			
GAS-18	1	Spring, Brush, Insulated			
GAS-1021R	1	Plate, Main Brush			
GEM-12†	2	Brush, Main			
8X-122	1	Screw, Grounded Brush, Fill. Hd. #8-32x1/2			
X-195	2	Lockwasher, Brush Sc., #8			
8X-1496	1	Screw, Ins. Brush, Bdg. Hd. #8-32x7/16			
GAS-2219R	1	Plate Assy., 3rd Brush			
GAS-15	1	Holder, Brush			
GAS-17	1	Spring, Brush			
GAS-1219R	1	Plate, 3rd. Brush			
GEM-13†	1	Brush			
X-195	1	Washer, Skpf. #8			
8X-878	1	Screw, Fill. Hd. #8-32x7/16			
8X-55	3	Screw, Rd. Hd. #8-32x3/8			
X-195	5	Lockwasher, #8			
8X-888	4	Screw, Fill. Hd. #8-32x5/16			

† BRUSH SET, SERVICE GEM-2012S

UNIT	APPLICATION
GAS-4304	Kohler Co.

Printed in U. S. A.

File in
Equipment & Parts List Binder

"NOTE: Where part numbers are shown in parenthesis they are for reference only. By stocking sub-parts the complete part can be assembled as needed."

